

Atlanta Arterials 2004 Traffic Survey

Final Report



Prepared for the Georgia Department of Transportation
by Skycomp, Inc. - Columbia, MD
Spring - 2004

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MAP OF SURVEYED HIGHWAYS, SPRING 2004



INTRODUCTION

The purpose of this aerial survey program is to rate the performance of the regional Atlanta highway system on a recurring 3-year basis, and to provide related data to stakeholders, regional planners, and decision-makers. This mobility-monitoring program began in the fall of 1998, at which time approximately 500 centerline miles of limited-access and arterial highway in the Atlanta metropolitan area were surveyed (data collection occurred during both morning and evening peak commuter periods). Coverage was repeated three years later, in the fall of 2001, leading to identification of links experiencing both improved and degraded mobility.

The early success of this survey program resulted in decisions to expand coverage, ultimately to include most of the state highways in the 21-county Atlanta planning region. Accordingly, approximately 250 centerline miles of highway in the outlying counties were added in the spring of 2002, and an additional 1,500 miles of highway were added in the spring of 2004. This document presents the findings of the spring 2004 survey flights.

The aerial survey methodology takes advantage of the mobility and vantage point of fixed-wing aircraft, permitting data collection across a vast highway network that could not be affordably accomplished using traditional ground-based survey methods. During each survey period last spring, up to seven aircraft at a time followed designated routes along the primary highways; each highway segment was photographed in its entirety approximately 24 times. Performance ratings derived from the photography is presented in this report, in numeric, graphic and photographic formats.

DETAILS OF THE AERIAL SURVEY PROGRAM

During each survey flight, overlapping photographic coverage was obtained of each included highway, repeated once an hour over four morning and four evening commuter periods. The morning coverage time was 6:30-9:30 a.m., and the evening time was 4:00-7:00 p.m. Survey flights were conducted on weekdays, excluding Monday mornings, Friday evenings, and mornings after holidays. Information was extracted from the aerial photographs to estimate average recurring daily traffic conditions by link and by time period. Products of the aerial survey program include:

1) Written Report

This written report documents the performance of 1,500 miles of surveyed highway. Mobility ratings are presented by highway segment, direction, and time period. Because these highways are interrupted-flow facilities, a surrogate level-of-service (LOS) measure developed specifically for use with overlapping aerial photographs has been utilized. Performance ratings range from surrogate LOS A (very light traffic) through surrogate LOS B, C, D, E and F (severely congested traffic). Detailed definitions of the surrogate level-of-service rating system are provided in Appendix A.

2) Survey Database

Another deliverable for this project is the Survey Database, built in the Microsoft Access format. This database contains all of the collected data, including traffic quality performance ratings, highway segmentation characteristics, survey schedule as executed, and a listing of observed traffic incidents (crashes, etc.). A number of reports can be displayed or printed from this resource. (Because all data are saved in a relational database format, it is further possible for a user to create a large number of custom queries and reports.)

3) Web-ready slideshow on CD-ROM

Skycomp has prepared a detailed maps of the 21-county planning area on CD-ROM, and has annotated the maps with graphics that show where all morning and evening highway congestion was found. "Clicking" on the arrowhead associated with each bottleneck produces a photo or set of photos illustrating corresponding conditions. Altogether, approximately 1500 highlight aerial photographs are included in the slide show.

Disclaimer

The contents in this publication reflect the views of the authors, who are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the Georgia Department of Transportation or the Federal Highway Administration. This publication does not constitute a standard, specification or regulation.

QUESTIONS

If there are any questions about this survey program or the underlying methodology, please direct them to Mr. Gregory Jordan at 410-884-6900.

2004 Atlanta Arterial Highway Traffic Survey

Traffic Quality Rating Tables

The following pages contain morning and evening traffic quality rating tables for all highways surveyed in the spring of 2004. Traffic quality ratings are presented by segment, hour and direction. Each rating is a composite reflecting all ratings for that hour – usually four – derived from survey flights on four different days, except that ratings affected by incidents or other unusual events were segregated and excluded from consideration.

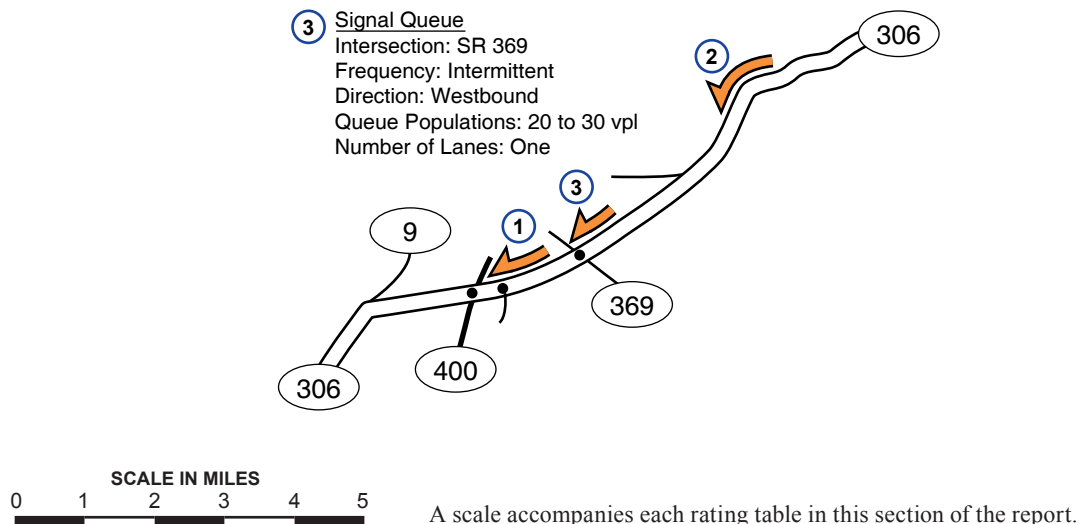
All highways in this report were classified interrupted-flow facilities, meaning that all performance ratings were generated by means of a surrogate level-of-service rating system developed in 1995 by Skycomp. This system uses platoon sizes and queuing characteristics as the basis for assigning ratings “A” through “F”, not travel times, which is the basis for *Highway Capacity Manual* LOS on interrupted-flow facilities. (For a detailed discussion of this topic, see Appendix A.) Because this rating system is a surrogate, each value has been underlined to emphasize the distinction. Appendix A also contains a detailed methodology description that documents how these ratings were derived.

TRAFFIC QUALITY RATINGS:

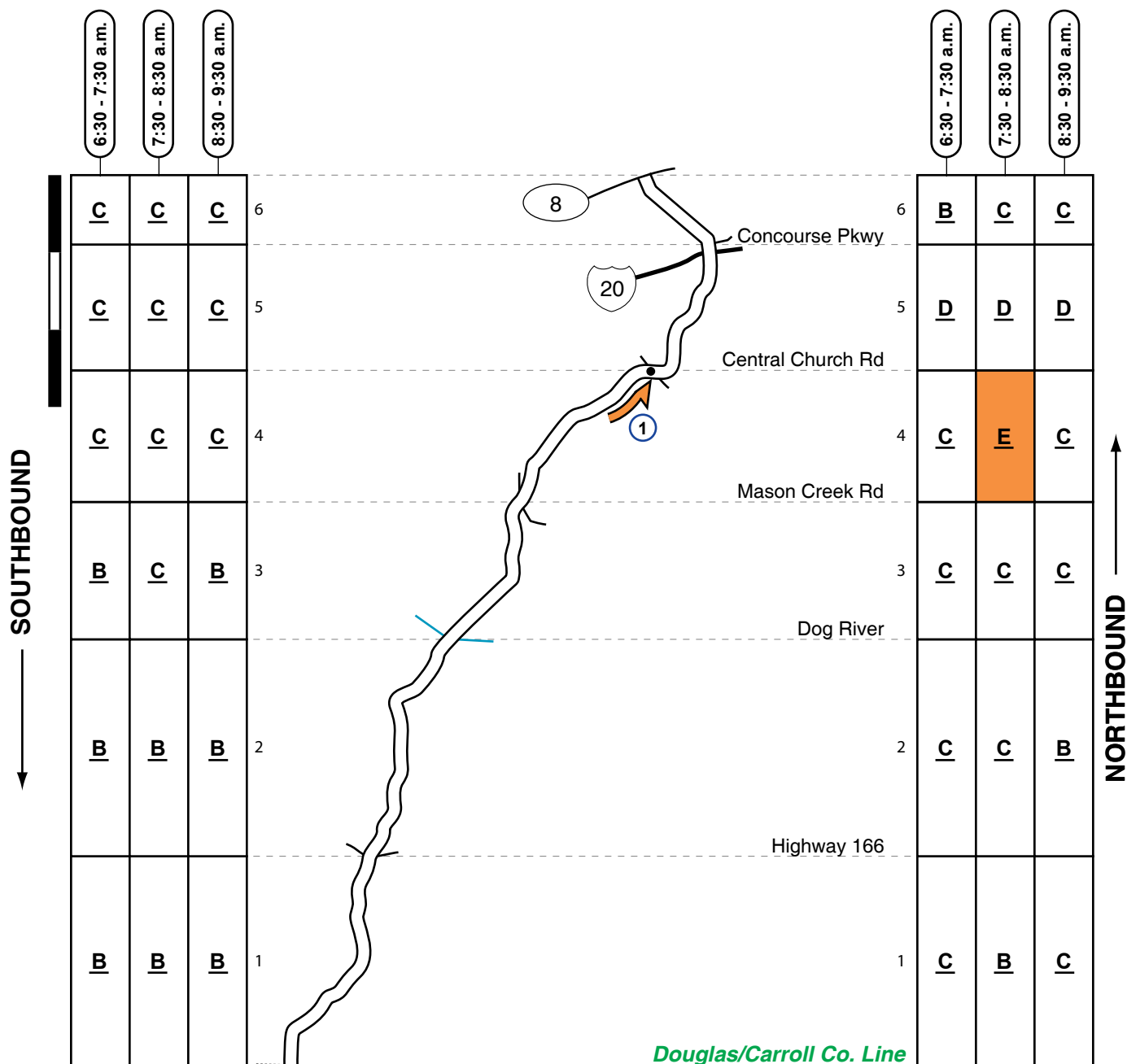
Traffic Condition	Very Light	Light	Moderate	Heavy	Congested	Severe
Traffic Quality	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>

CONGESTED LOCATIONS

In the traffic quality rating tables that follow, ratings represent the full length of each segment. For clarity, specific bottlenecks within each segment are represented on an adjacent map using colored arrows: RED is used to depict severe congestion, while ORANGE is used to depict marginal or intermittent congestion. A summary of the nature of congestion found in each bottleneck is also provided, in the following format:

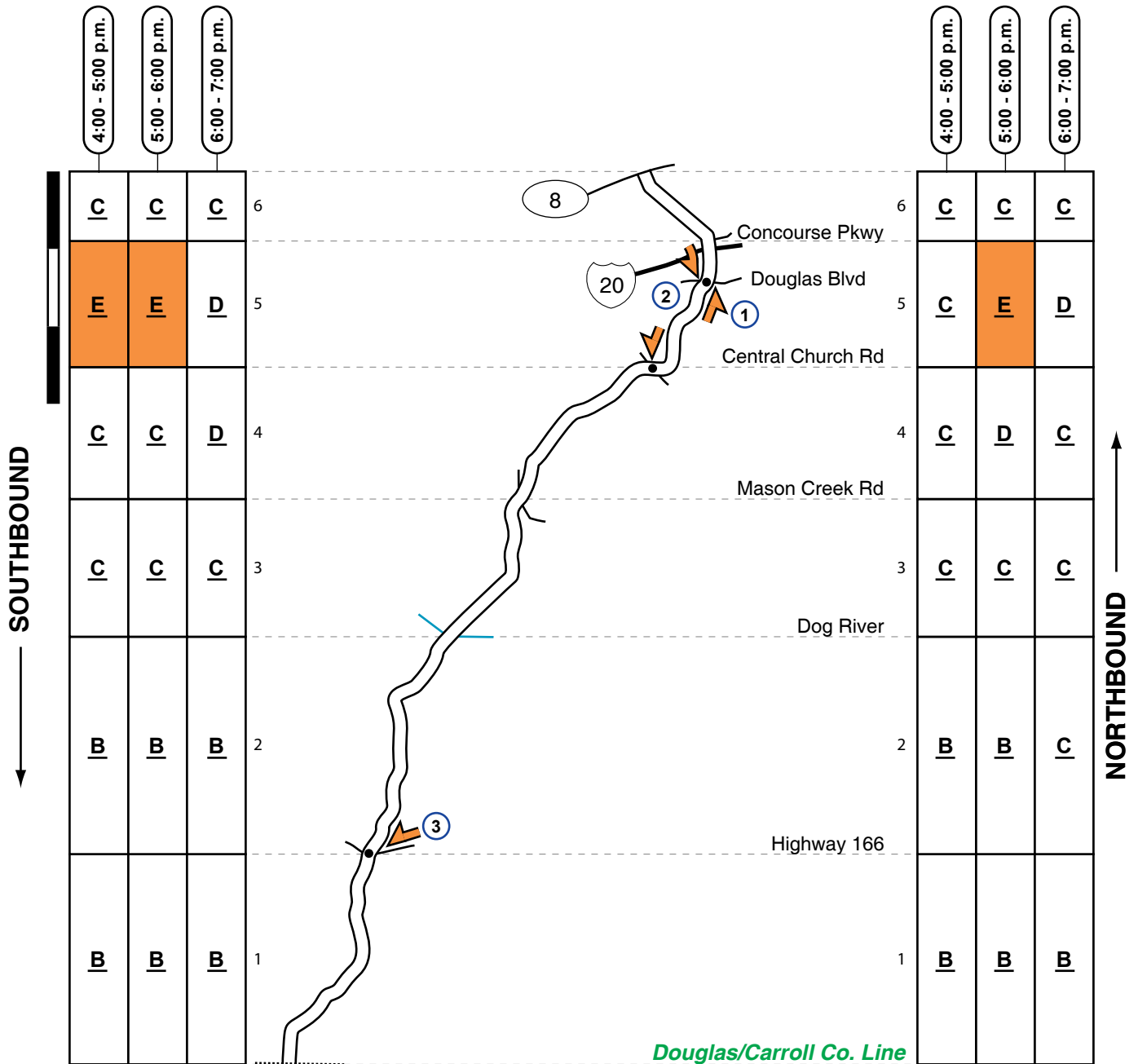


SR 5 (DOUGLAS COUNTY) - MORNING



- ① Signal Queue
 Intersection: Central Church Rd
 Frequency: Middle hour
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

SR 5 (DOUGLAS COUNTY) - EVENING



① Signal Queue
 Intersection: Douglas Blvd
 Frequency: Most observations from 5:00 - 6:30 p.m.
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

② Signal Queues
 Intersection: Douglas Blvd
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

③ Congested Cross Road
 Road Name: Highway 166
 Frequency: Intermittent
 Direction: Westbound
 Queue Population: 20 to 25 vpl
 Number of Lanes: One

Intersection: Central Church Rd
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

Traffic Quality Rating

A
Very Light

B
Light

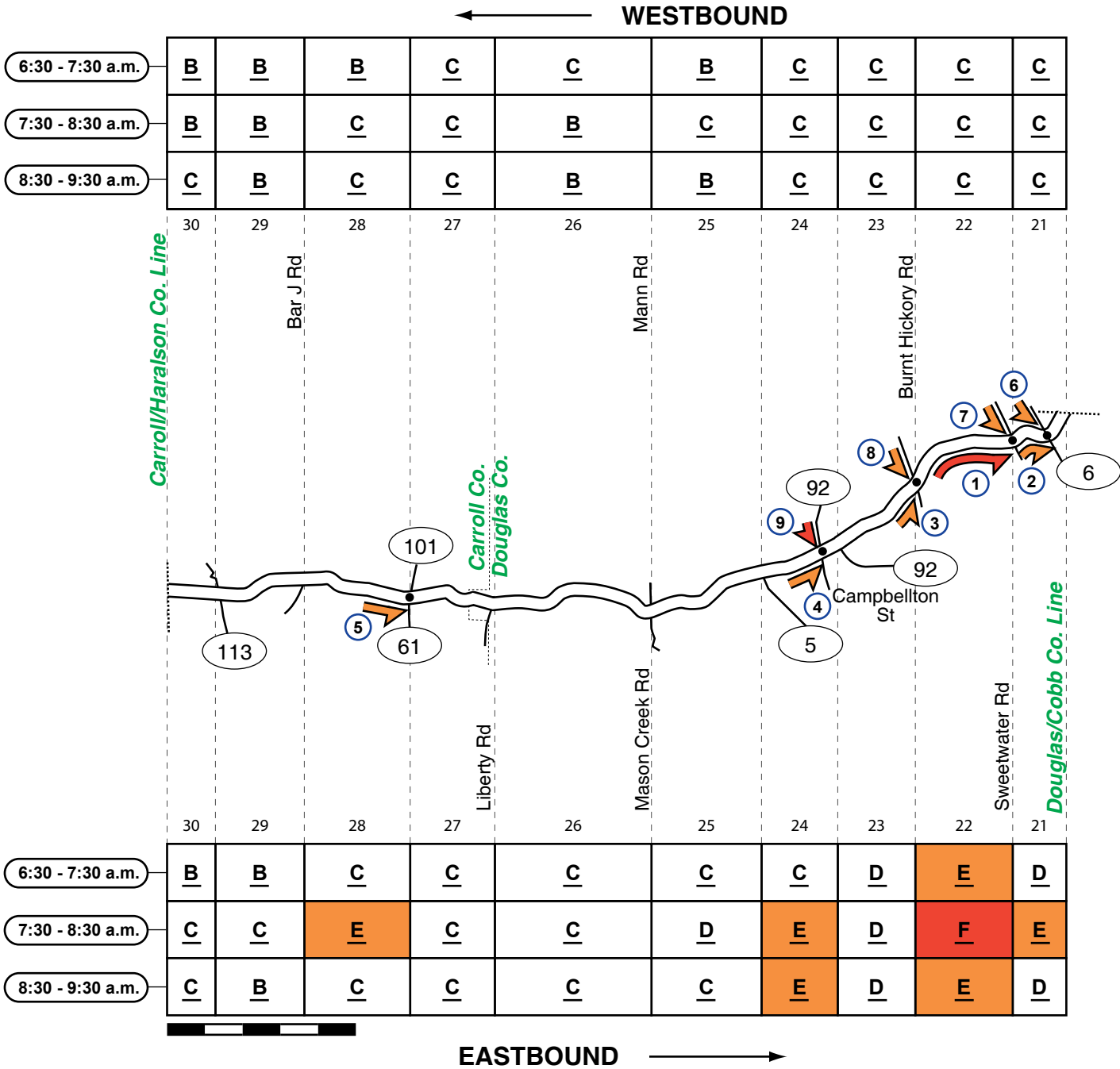
C
Moderate

D
Heavy

E
Congested

F
Severe

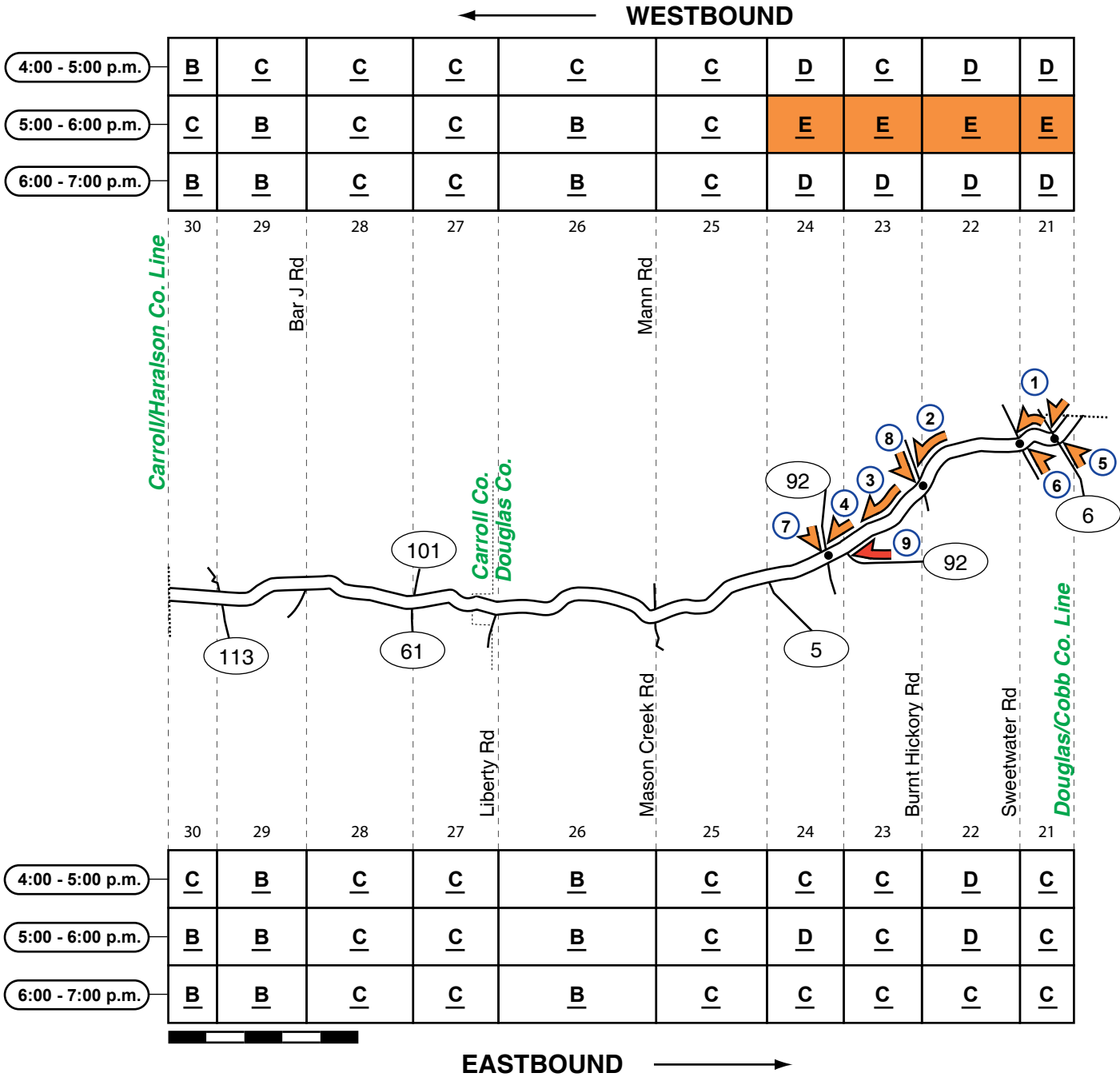
SR 8 (CARROLL & DOUGLAS COUNTIES) - MORNING



SR 8 (CARROLL & DOUGLAS COUNTIES) - MORNING

- ① Signal Queue
Intersection: Sweetwater Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 30 to 200 vpl
Number of Lanes: One
Note: In some cases, the queue extended upstream of the signal for a distance of approximately two miles.
- ② Signal Queue
Intersection: SR 6
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ③ Signal Queue
Intersection: Burnt Hickory Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ④ Signal Queue
Intersection: SR 92 / Campbellton St
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑤ Signal Queue
Intersection: SR 61/101
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑥ Congested Cross Road
Road Name: SR 6
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑦ Congested Cross Road
Road Name: Sweetwater Rd
Frequency: First hour
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑧ Congested Cross Road
Road Name: Burnt Hickory Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑨ Congested Cross Road
Road Name: SR 92 / Dallas Hwy
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

SR 8 (CARROLL & DOUGLAS COUNTIES) - EVENING

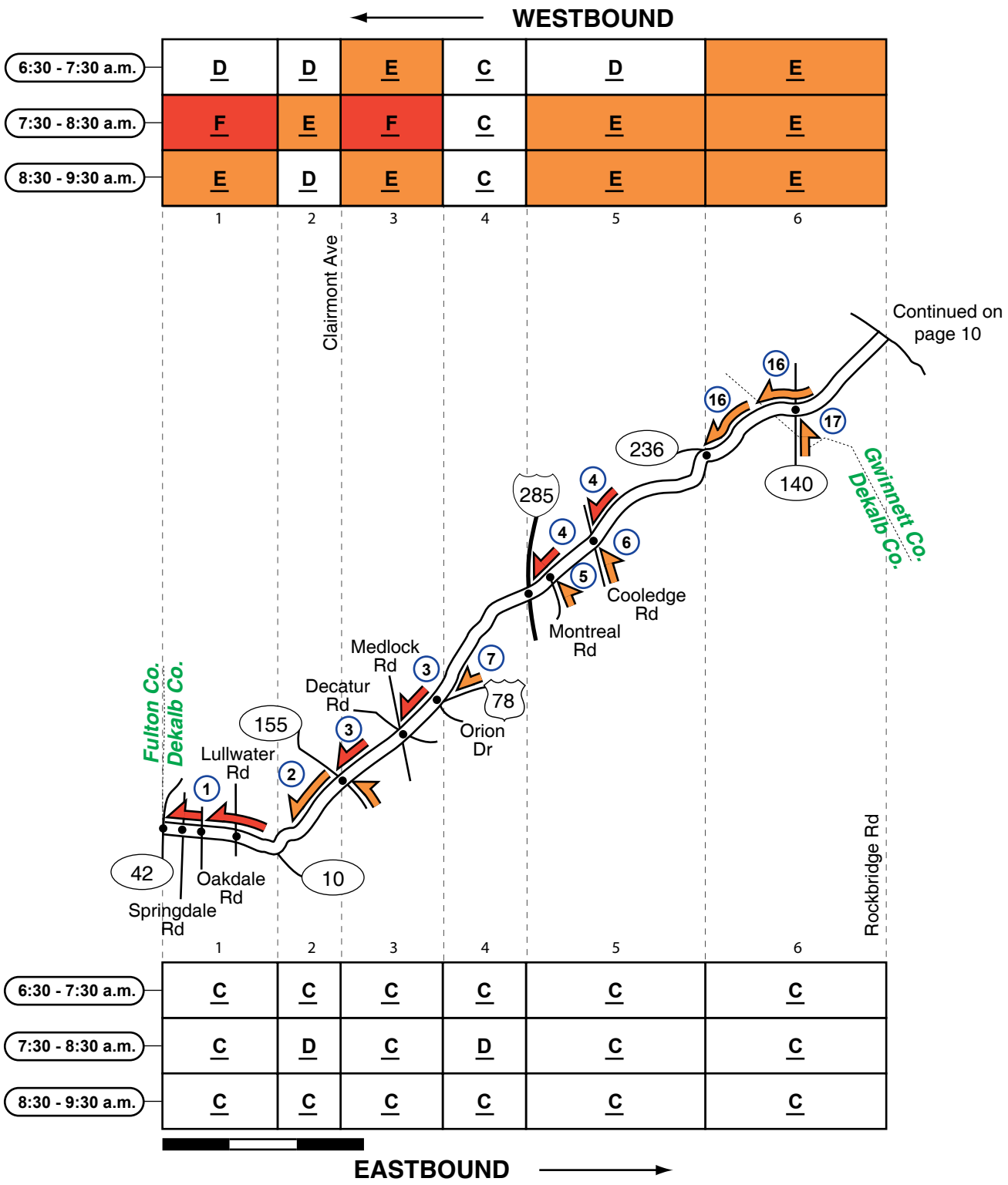


SR 8 (CARROLL & DOUGLAS COUNTIES) - EVENING

- ① Signal Queues
Intersection: SR 6
Frequency: Middle hour/Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Intersection: Sweetwater Rd
Frequency: Middle hour/Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ② Signal Queue
Intersection: Burnt Hickory Rd
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ③ Platoons
Location: Between Burnt Hickory Rd and SR 92
Frequency: Intermittently after 5:00 p.m.
Direction: Westbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One
- ④ Signal Queue
Intersection: SR 92 / Campbellton St
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑤ Congested Cross Road
Road Name: SR 6
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑥ Congested Cross Road
Road Name: Sweetwater Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ⑦ Congested Cross Road
Road Name: SR 92 / Dallas Hwy
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑧ Congested Cross Road
Road Name: Burnt Hickory Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑨ Congested Cross Road
Intersection: SR 92
Frequency: Most observations before 6:00 p.m.
Direction: Northbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - MORNING



SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - MORNING

① Signal Queues

Intersections: SR 42 & Lullwater Rd
 Frequency: Most observations between 7:00 and 9:00 a.m.
 Direction: Westbound
 Queue Populations: 40 to 80 vpl
 Number of Lanes: Two

Intersections: Springdale Rd & Oakdale Rd
 Frequency: Most observations between 7:00 and 9:00 a.m.
 Direction: Westbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: Two

② Platoons

Location: Between SR 155 & SR 10
 Frequency: Middle hour
 Direction: Westbound
 Platoon Populations: 25 to 35 vpl
 Number of Lanes: Two

③ Signal Queues

Intersections: SR 155 & Medlock/Decatur Rd
 Frequency: Most observations
 Direction: Westbound
 Queue Populations: 20 to 65 vpl
 Number of Lanes: Three (Medlock/Decatur Rd) & Two (SR 155)

④ Signal Queues

Intersections: I-285 & Cooledge Rd
 Frequency: Most observations
 Direction: Westbound
 Queue Populations: 20 to 45 vpl
 Number of Lanes: Two

⑤ Congested Cross Road

Road Name: Montreal Rd
 Frequency: Middle hour
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One (Thru/Left-turn lane)

⑥ Congested Cross Road

Road Name: Cooledge Rd
 Frequency: Middle hour
 Direction: Northbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

⑦ Congested Cross Road

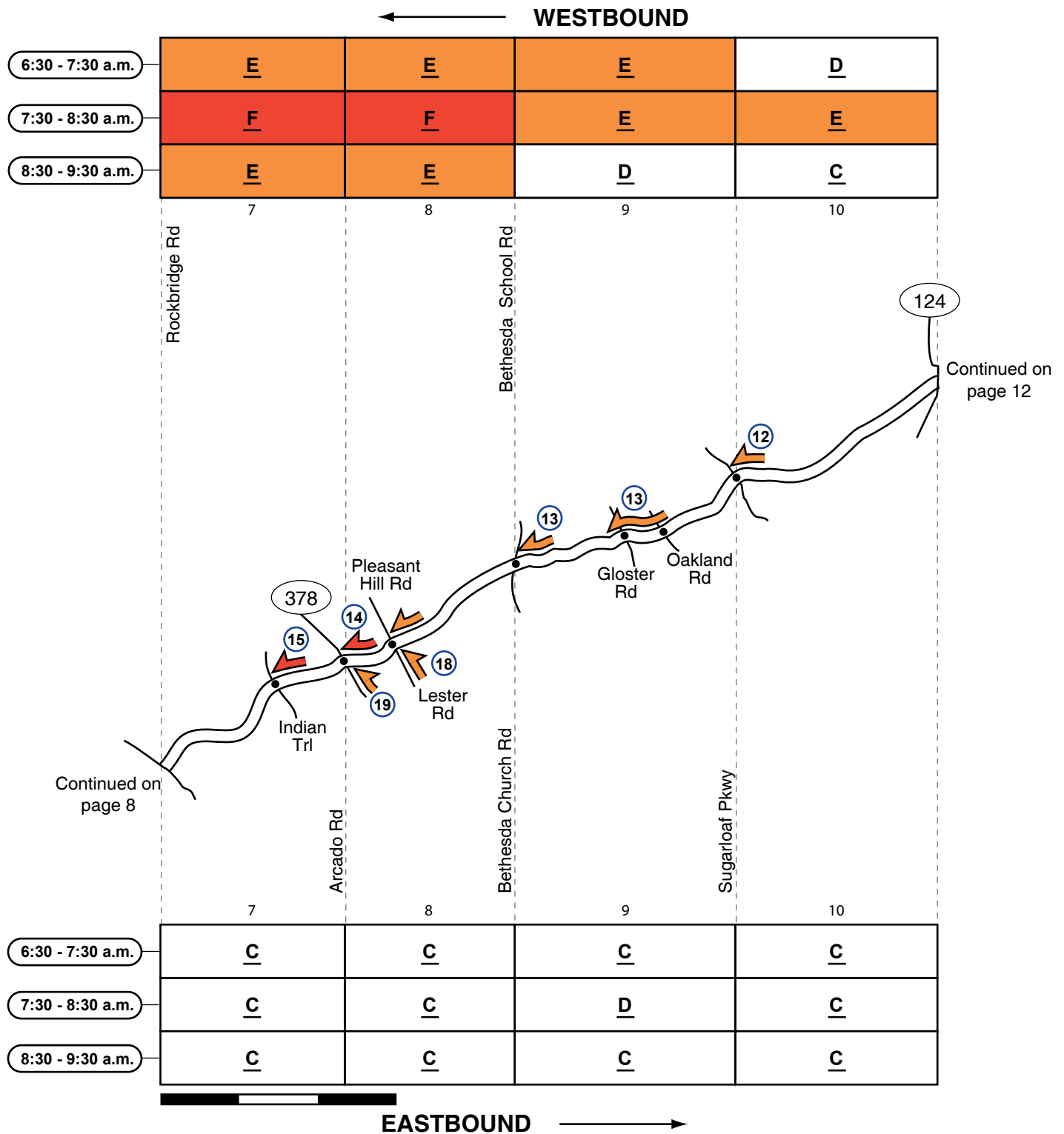
Road Name: US 78
 Frequency: Peak Period
 Direction: Westbound
 Queue Populations: 20 to 80 vpl
 Number of Lanes: Two
 Note: Head of queue on SR 8 at Orion Dr

⑩ Platoons

Location: Vicinity SR 140 & SR 236
 Frequency: Most observations
 Direction: Westbound
 Platoon Populations: 25 to 35 vpl
 Number of Lanes: Two

⑪ Congested Cross Road

Road Name: SR 140
 Frequency: Middle hour
 Direction: Northbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: Two

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - MORNING

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

F

Severe

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - MORNING

⑫ Signal Queue

Intersection: Sugarloaf Parkway
Frequency: Most observations between 7:00 and 8:30 a.m.
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two

⑬ Signal Queue

Intersection: Bethesda School Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two

Platoons

Location: Vicinity of signals at Gloster Rd, Shannon Way & Oakland Rd
Frequency: Middle hour
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One

⑭ Signal Queue

Intersection: SR 378
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 90 vpl
Number of Lanes: Two

Signal Queue

Intersection: Pleasant Hill Rd
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

⑮ Signal Queue

Intersection: Indian Trail Liburn Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two

⑱ Congested Cross Road

Road Name: Lester Rd
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

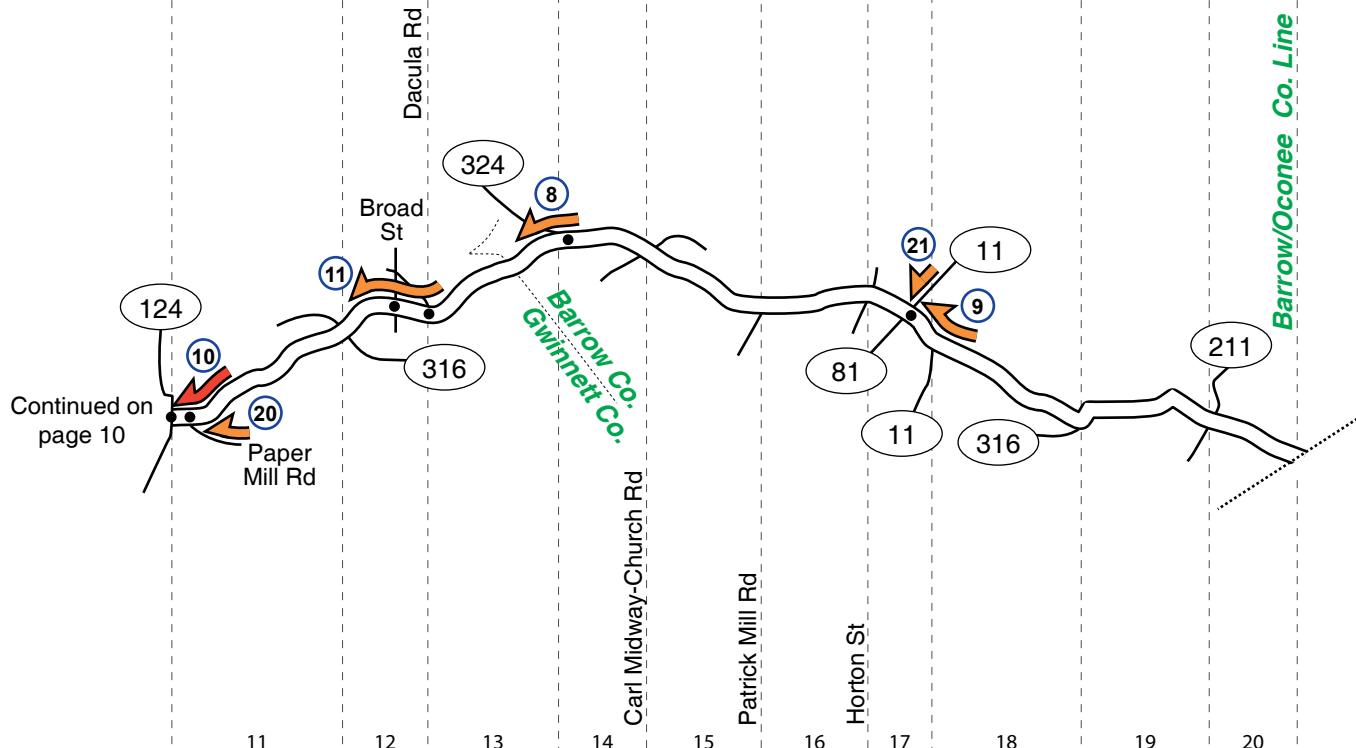
⑲ Congested Cross Road

Road Name: Arcado Rd
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - MORNING

← WESTBOUND

6:30 - 7:30 a.m.	<u>F</u>	<u>E</u>	<u>D</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>
7:30 - 8:30 a.m.	<u>F</u>	<u>D</u>	<u>C</u>	<u>E</u>	<u>C</u>	<u>C</u>	<u>E</u>	<u>C</u>	<u>C</u>	<u>C</u>
8:30 - 9:30 a.m.	<u>E</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>C</u>
	11	12	13	14	15	16	17	18	19	20



6:30 - 7:30 a.m.	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>
7:30 - 8:30 a.m.	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>C</u>
8:30 - 9:30 a.m.	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>B</u>
	11	12	13	14	15	16	17	18	19	20

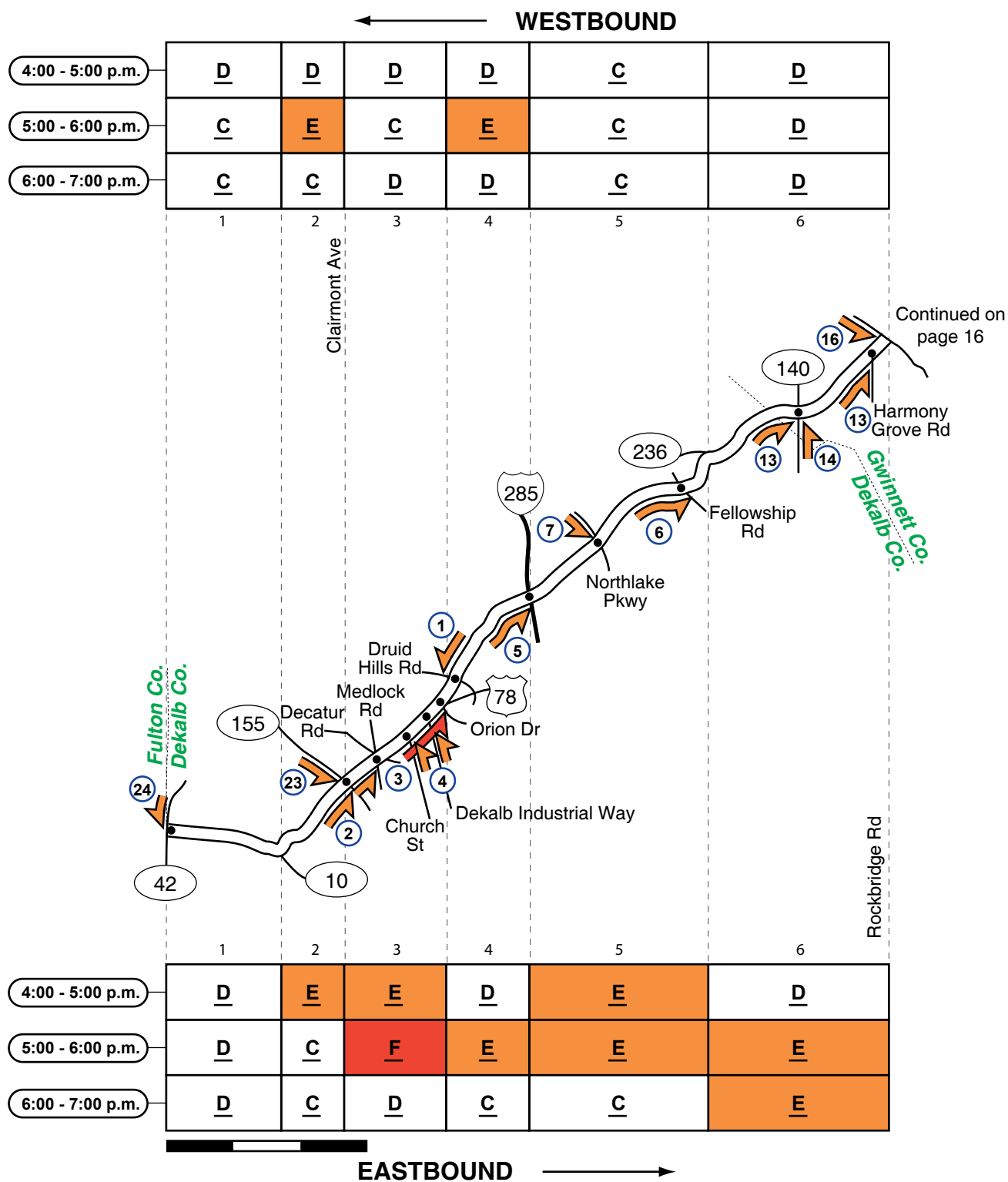
EASTBOUND →

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - MORNING

- ⑧ Platoons
Location: Vicinity SR 324
Frequency: Between 7:00 and 8:30 a.m.
Direction: Westbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One
- ⑨ Signal Queue
Intersection: SR 81
Frequency: Most observations after 7:30 a.m.
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑩ Signal Queues
Intersections: Paper Mill Rd & SR 124
Frequency: Most observations
Direction: Westbound
Queue Populations: 40 to 100 vpl
Number of Lanes: One
Note: Queue intermittently backed through upstream signal at Hosea Rd
- ⑪ Platoons
Location: Vicinity Dacula Rd & Broad St
Frequency: Early in the survey period
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One
- ⑫ Congested Cross Road
Road Name: Paper Mill Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑬ Congested Cross Road
Road Name: SR 11
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - EVENING

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

F

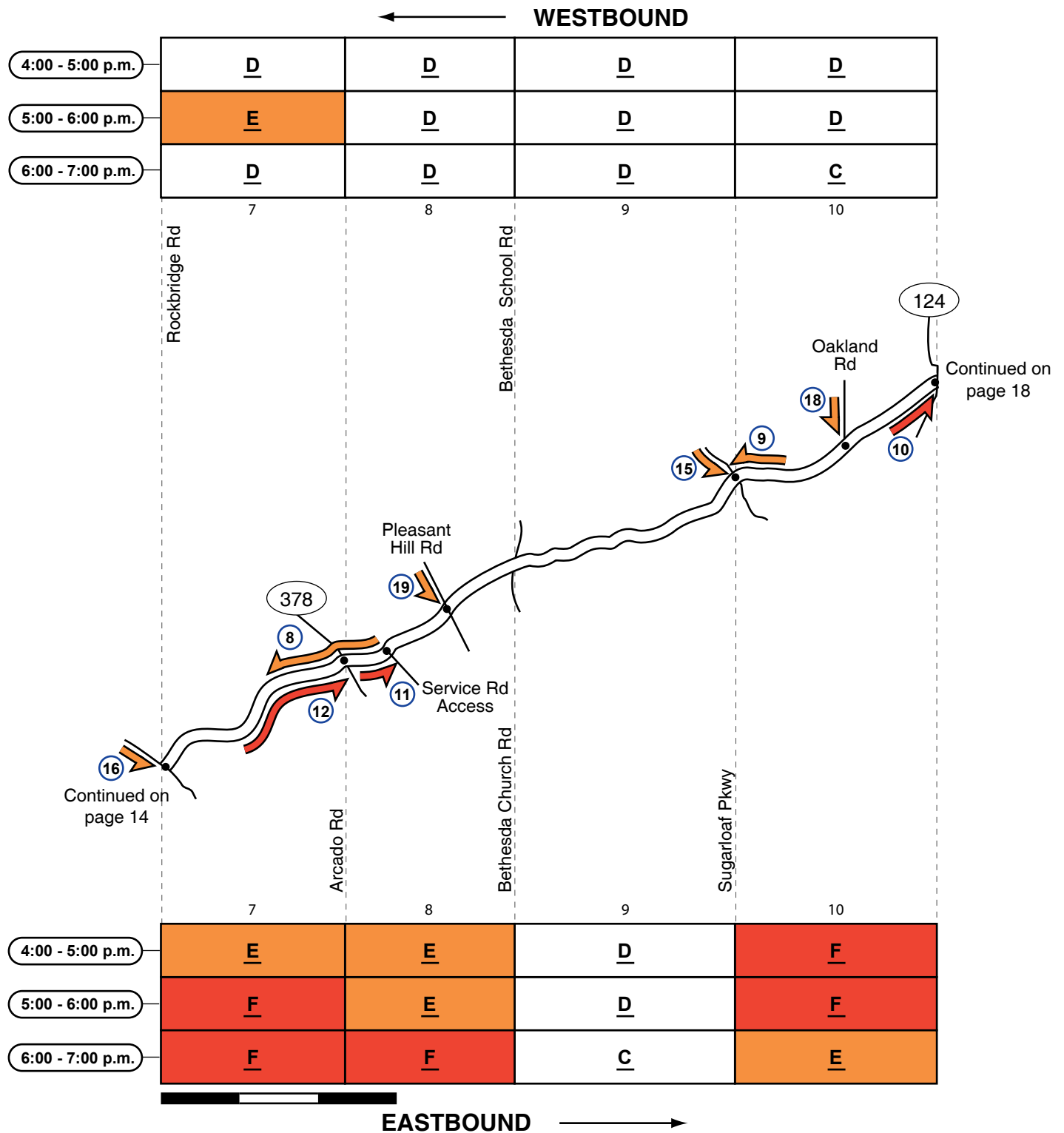
Severe

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - EVENING

- ① Signal Queue
Intersection: Druid Hills Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two
- ② Signal Queue
Intersection: SR 155
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ③ Signal Queues
Intersections: Church St, Dekalb Industrial Way, & Orion Dr
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 70 vpl
Number of Lanes: Three

Intersection: Medlock/Decatur Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two
- ④ Congested Cross Roads
Road Names: Dekalb Industrial Way & Church St
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑤ Signal Queues
Intersection: Vicinity I-285
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑥ Signal Queue
Intersection: Fellowship Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- ⑦ Congested Cross Road
Road Name: Northlake Parkway
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One (Left-turn lane)
- ⑬ Signal Queues
Intersection: SR 140
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Intersection: Harmony Grove Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑭ Congested Cross Road
Road Name: SR 140
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑮ Congested Cross Road
Road Name: Rockbridge Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑳ Congested Cross Road
Road Name: SR 155
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ㉔ Congested Cross Road
Road Name: SR 42
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 35 vpl
Number of Lanes: Two

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - EVENING

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

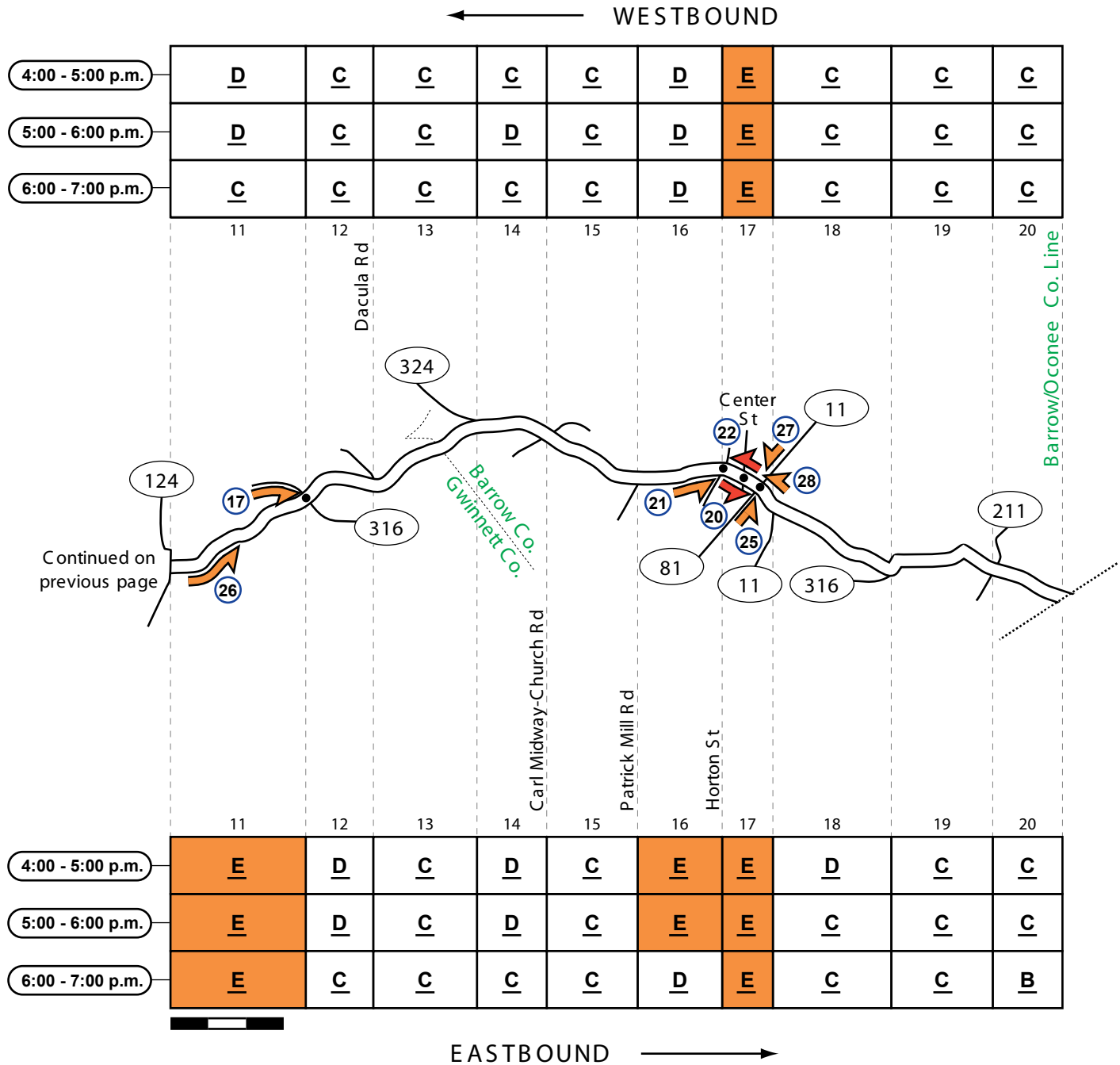
F

Severe

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - EVENING

- ⑧ Platoons
Location: Vicinity of signal at SR 378
Frequency: Intermittent
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ⑨ Signal Queue
Intersection: Sugarloaf Parkway
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- ⑩ Signal Queue
Intersection: SR 124
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One
- ⑪ Signal Queue
Intersection: Service Rd Access (just west of Pleasant Hill Rd)
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑫ Signal Queue
Intersection: SR 378
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 100 vpl
Number of Lanes: Two
- ⑮ Congested Cross Road
Road Name: Sugarloaf Parkway
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑯ Congested Cross Road
Road Name: Rockbridge Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑱ Congested Cross Road
Road Name: Oakland Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑲ Congested Cross Road
Road Name: Pleasant Hill Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - EVENING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

F

Severe

SR 8 (DEKALB/GWINNETT & BARROW COUNTIES) - EVENING

①⑦ Congested Cross Road

Road Name: SR 316
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two

②⑧ Signal Queue

Intersection: SR 81/SR 11
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

②⑩ Signal Queues

Intersections: Center St & SR 81
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

②① Platoons

Location: Vicinity of signal at Horton St
Frequency: Most observations before 6:00 p.m.
Direction: Eastbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One

②② Signal Queues

Intersections: SR 81 & Horton St
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One

②⑤ Congested Cross Road

Road Name: SR 81
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

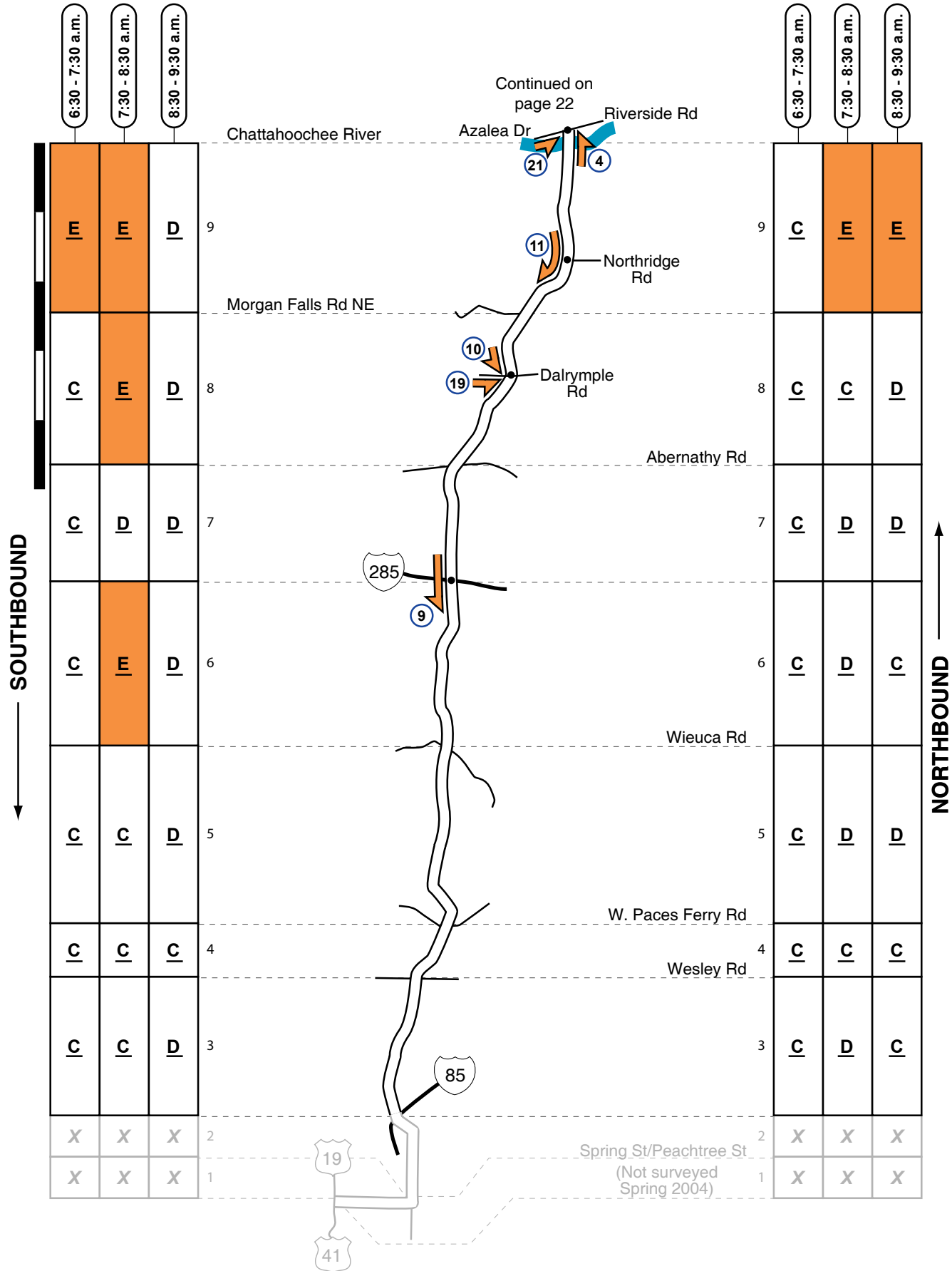
②⑥ Platoons

Location: Between SR 124 and SR 316
Frequency: Most observations
Direction: Eastbound
Platoon Populations: 25 to 45 vpl
Number of Lanes: One

②⑦ Congested Cross Road

Road Name: SR 11
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

SR 9 (FULTON & FORSYTH COUNTIES) - MORNING



SR 9 (FULTON & FORSYTH COUNTIES) - MORNING

- 4

Signal Queue

Intersection: Azalea Dr/Riverside Rd

Frequency: Middle hour

Direction: Northbound

Queue Populations: 20 to 50 vpl

Number of Lanes: One

Note: One thru-lane at the signal.
- 9

Platoons

Location: Vicinity of I-285

Frequency: Intermittent

Direction: Southbound

Platoon Populations: 25 to 35 vpl

Number of Lanes: Two
- 10

Signal Queue

Intersection: Dalrymple Rd

Frequency: Middle hour

Direction: Southbound

Queue Populations: 20 to 30 vpl

Number of Lanes: Two
- 11

Platoons

Location: Vicinity of the signal at Northridge Rd

Frequency: Intermittent

Direction: Southbound

Platoon Populations: 25 to 45 vpl

Number of Lanes: Two
- 19

Congested Cross Road

Road Name: Dalrymple Rd

Frequency: Middle hour

Direction: Eastbound

Queue Populations: 20 to 30 vpl

Number of Lanes: One
- 21

Congested Cross Road

Road Name: Azalea Dr

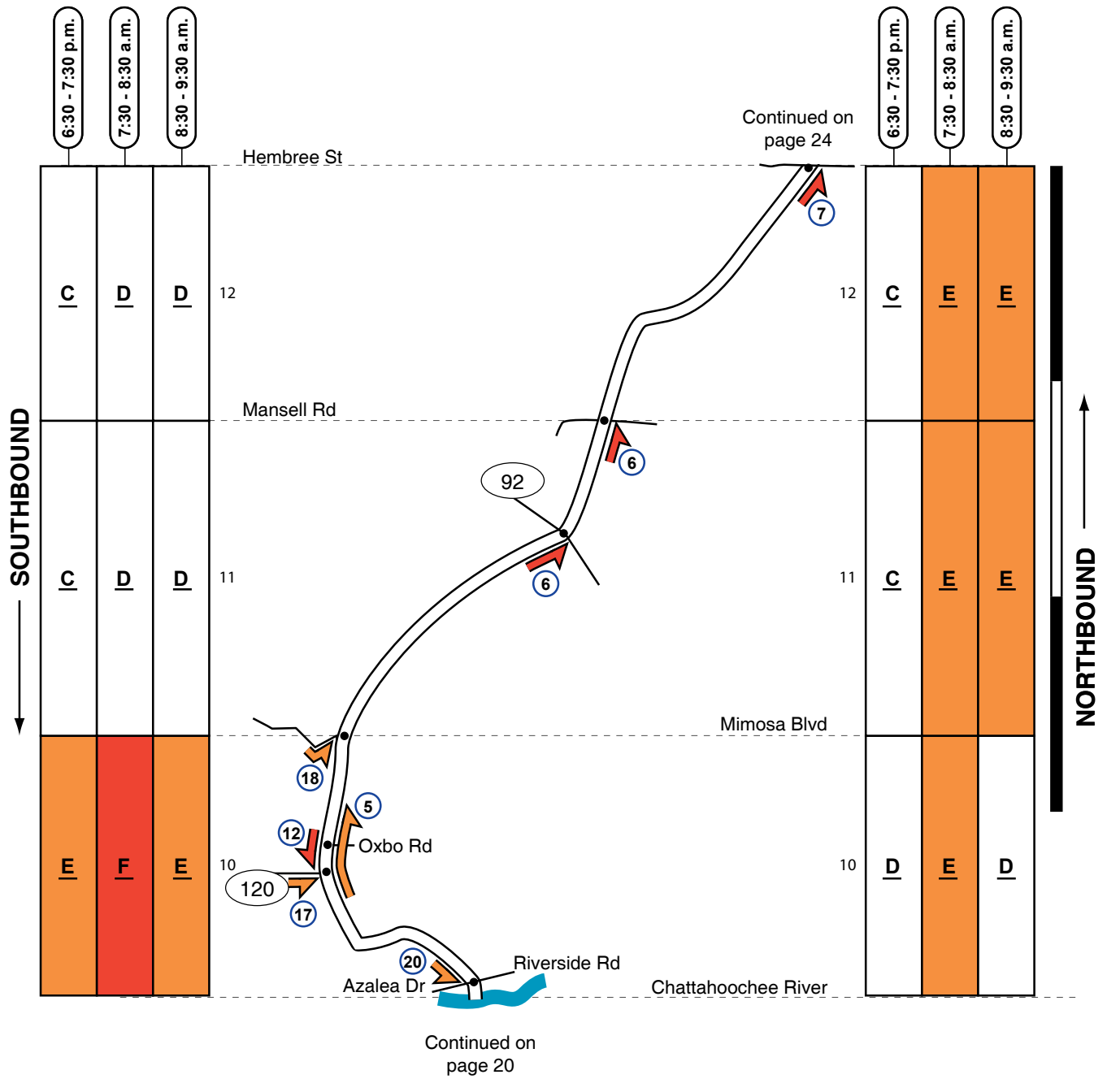
Frequency: Intermittent

Direction: Eastbound

Queue Populations: 20 to 25 vpl

Number of Lanes: One

SR 9 (FULTON & FORSYTH COUNTIES) - MORNING



Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 9 (FULTON & FORSYTH COUNTIES) - MORNING

⑤ Platoons
 Location: Between Chattahoochee River & Mimosa Blvd
 Frequency: Middle hour
 Direction: Northbound
 Platoon Populations: 25 to 35 vpl
 Number of Lanes: One

⑥ Signal Queues
 Intersections: SR 92 & Mansell Rd
 Frequency: Most observations after 7:30 a.m.
 Direction: Northbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: Two

⑦ Signal Queue
 Intersection: Hembree St
 Frequency: Most observations after 7:30 a.m.
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

⑫ Signal Queue
 Intersection: SR 120 & Oxbo Rd
 Frequency: Most observations
 Direction: Southbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: Two

⑰ Congested Cross Road
 Road Name: SR 120
 Frequency: Middle hour
 Direction: Eastbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: Three

⑱ Congested Cross Road
 Road Name: Mimosa Blvd
 Frequency: Middle hour
 Direction: Eastbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

⑳ Signal Queue
 Intersection: Azalea Dr / Riverside Rd
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: Two

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

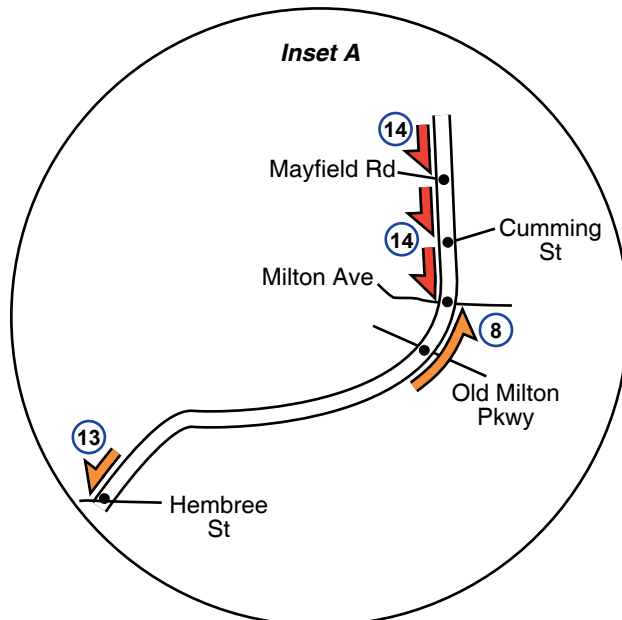
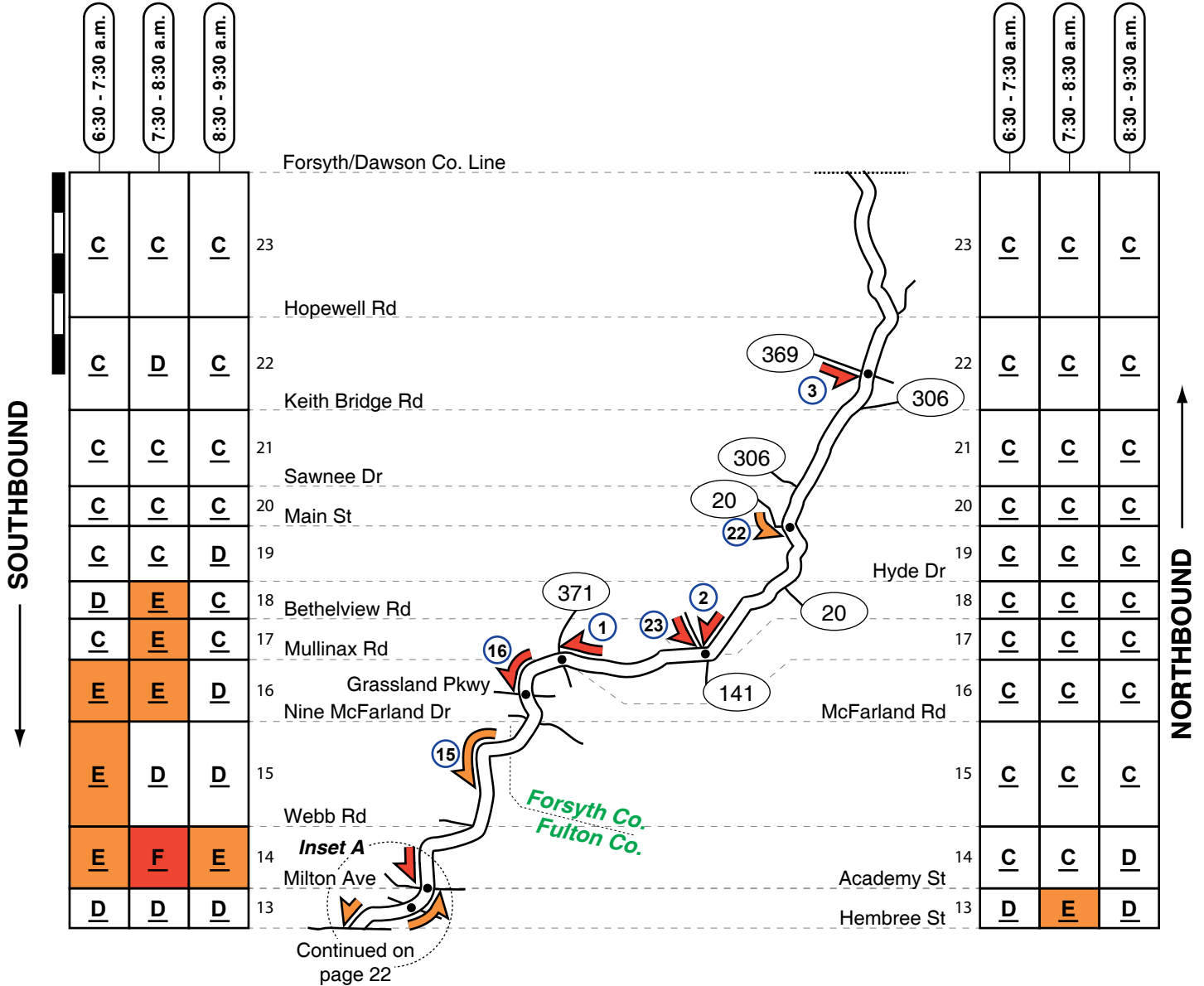
E

Congested

F

Severe

SR 9 (FULTON & FORSYTH COUNTIES) - MORNING



Traffic Quality Rating



SR 9 (FULTON & FORSYTH COUNTIES) - MORNING

- ① Signal Queue
Intersection: SR 371
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
Note: On one morning at 8:21 a.m., over 200 vehicles were queued at the signal at SR 371 (for a distance of over two miles); this may have been caused by an unidentified incident as downstream congestion appeared to back through the signal (cause of downstream congestion not identified).
- ② Signal Queue
Intersection: SR 141
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
- ③ Congested Cross Road
Road Name: SR 369
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑧ Signal Queues
Intersections: Old Milton Pkwy & Milton Ave
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑬ Signal Queue
Intersection: Hembree St
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑭ Signal Queues
Intersections: Milton Ave, Cumming St & Mayfield Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑮ Platoons
Location: Between McFarland Rd & Webb Rd
Frequency: Early in the survey period
Direction: Southbound
Platoon Populations: 25 to 50 vpl
Number of Lanes: One
- ⑯ Signal Queue
Intersection: Grassland Pkwy
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One
- ⑳ Congested Cross Road
Road Name: SR 20
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ㉓ Congested Cross Road
Road Name: Mullinax Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 45 vpl
Number of Lanes: One

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

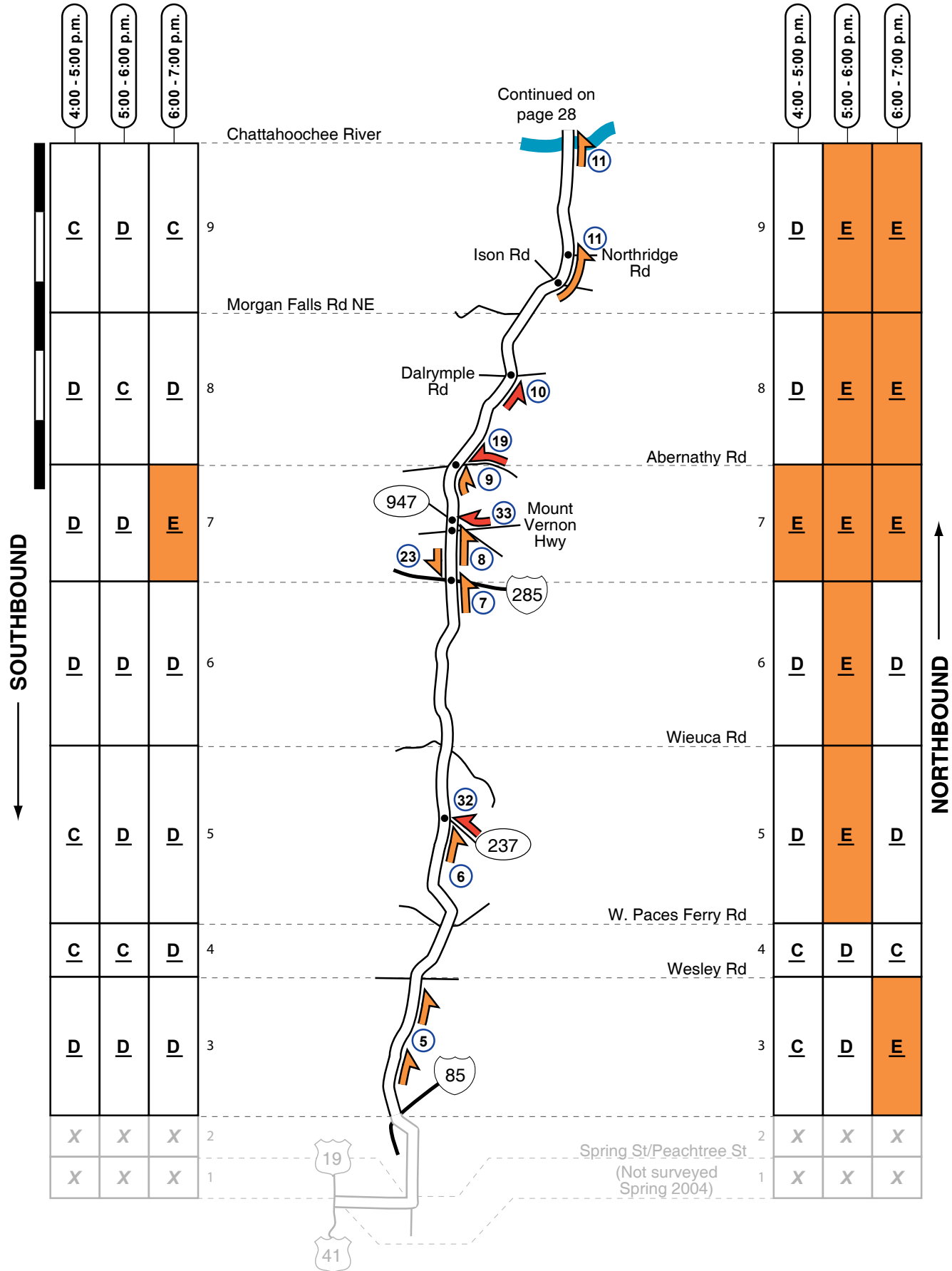
E

Congested

F

Severe

SR 9 (FULTON & FORSYTH COUNTIES) - EVENING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

F

Severe

SR 9 (FULTON & FORSYTH COUNTIES) - EVENING

- ⑤ Platoons
Location: Between I-85 & Wesley Rd
Frequency: Intermittently after 5:00 p.m.
Direction: Northbound
Platoon Populations: 25 to 35 vpl
Number of Lanes:
- ⑥ Signal Queue
Intersection: SR 237
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One
- ⑦ Signal Queues/Platoons
Intersections: Vicinity of I-285
Frequency: Middle hour
Direction: Northbound
Queue/Platoon Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑧ Signal Queues/Platoons
Intersections: Vicinity of Mount Vernon Hwy & Johnson Ferry Rd (SR 947)
Frequency: Most observations
Direction: Northbound
Queue/Platoon Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑨ Signal Queue
Intersection: Abernathy Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑩ Signal Queue
Intersection: Dalrymple Rd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑪ Platoons
Location: Vicinity of Ison Rd, Northridge Dr and the Chattahoochee River
Frequency: Intermittent
Direction: Northbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ⑫ Signal Queue
Intersection: I-285
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑬ Congested Cross Road
Road Name: SR 237
Frequency: Most observations after 5:00 p.m.
Direction: Northbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑭ Congested Cross Road
Road Name: SR 947
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 100 vpl
Number of Lanes: One
Note: Northbound congestion on SR 947 approaching the signal at SR 9 typically extended back onto the westbound approach on Mount Vernon Highway.
- ⑮ Congested Cross Road
Road Name: Abernathy Rd
Frequency: Most observations after 5:00 p.m.
Direction: Westbound
Queue Populations: 20 to 120 vpl
Number of Lanes: Two

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

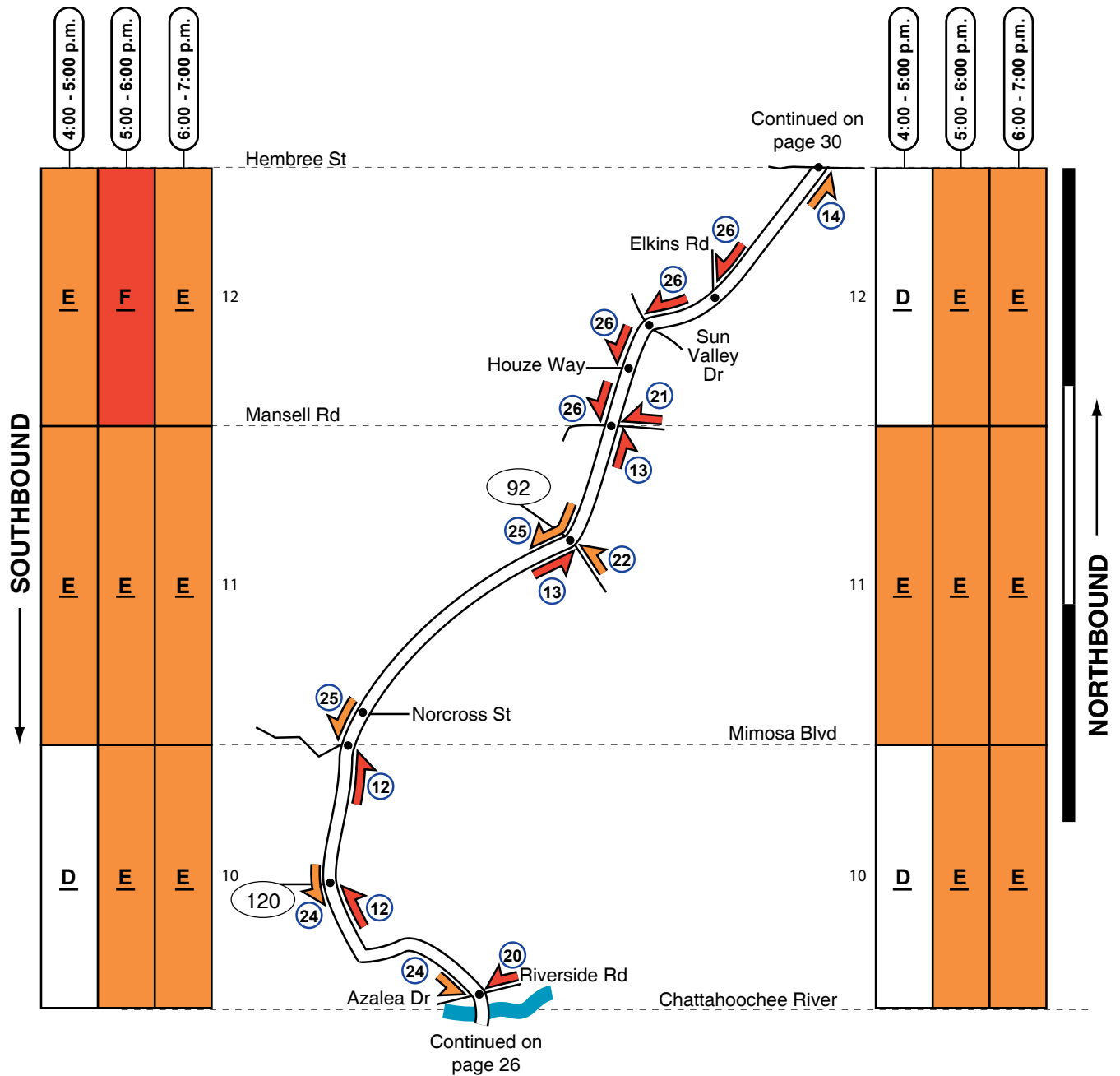
E

Congested

F

Severe

SR 9 (FULTON & FORSYTH COUNTIES) - EVENING



SR 9 (FULTON & FORSYTH COUNTIES) - EVENING

- ⑫ Signal Queues
Intersections: SR 120 & Mimosa Blvd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑬ Signal Queues
Intersections: SR 92 & Mansell Rd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two
- ⑭ Signal Queue
Intersection: Hembree St
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑳ Congested Cross Road
Road Name: Riverside Rd
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 70 vpl
Number of Lanes: One
- ㉑ Congested Cross Road
Road Name: Mansell Rd
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two
- ㉒ Congested Cross Road
Road Name: SR 92
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Three
- ㉔ Signal Queue
Intersection: Azalea Dr/Riverside Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
Note: During the evening survey period, the center lane of three on SR 9 is open to northbound traffic only.
- Platoons
Location: Vicinity of the signals at SR 120 & Park Square Ct
Frequency: Intermittent
Direction: Southbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ㉕ Signal Queues
Intersections: Mimosa Blvd & Norcross St
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- Platoons
Location: Vicinity of SR 92
Frequency: Intermittent
Direction: Southbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ㉖ Signal Queues
Intersections: Mansell Rd, Houze Way, Sun Valley Dr & Elkins Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

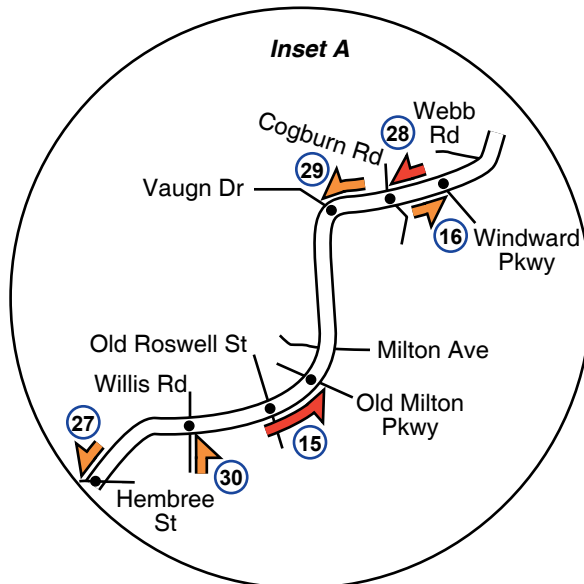
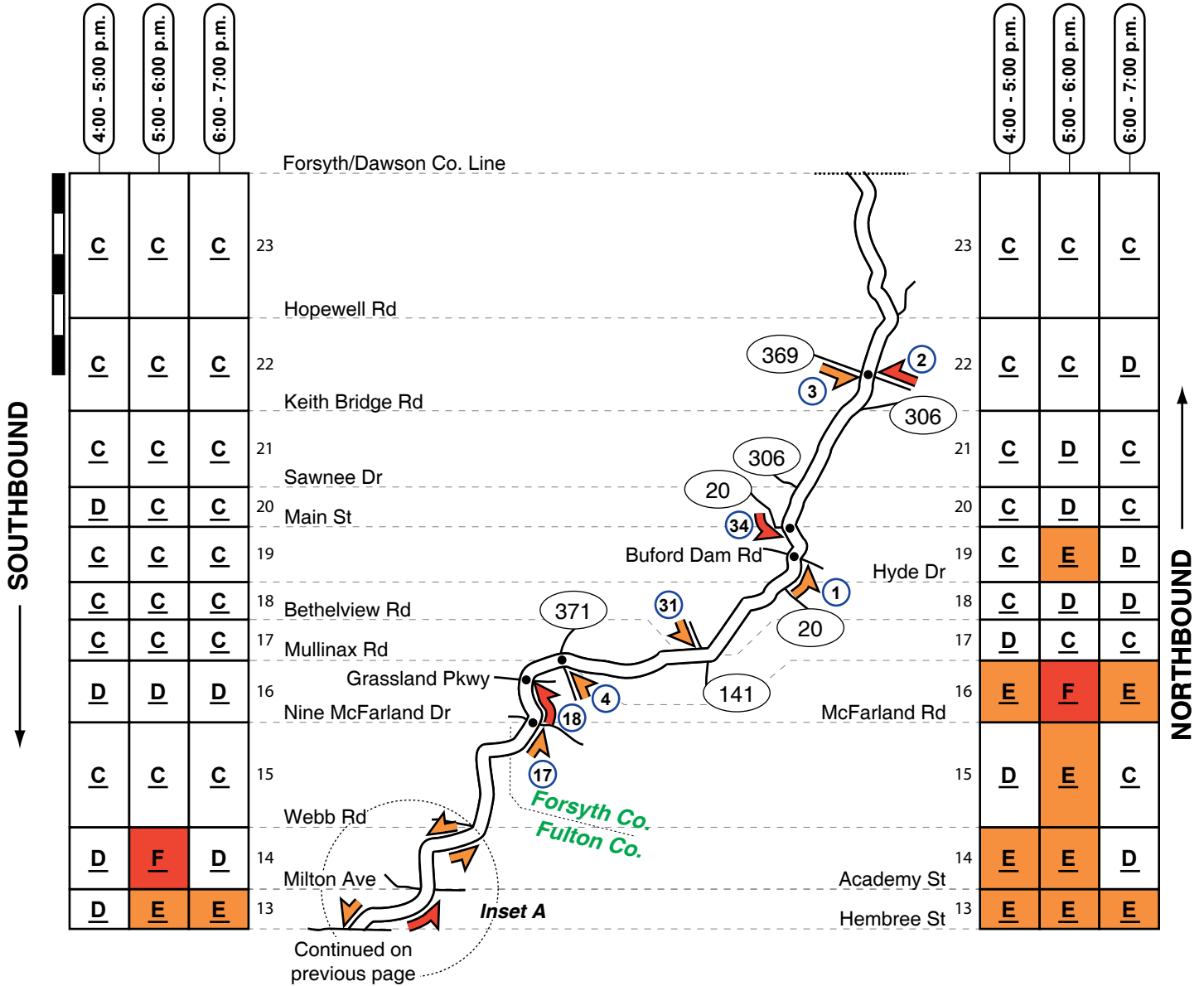
E

Congested

F

Severe

SR 9 (FULTON & FORSYTH COUNTIES) - EVENING



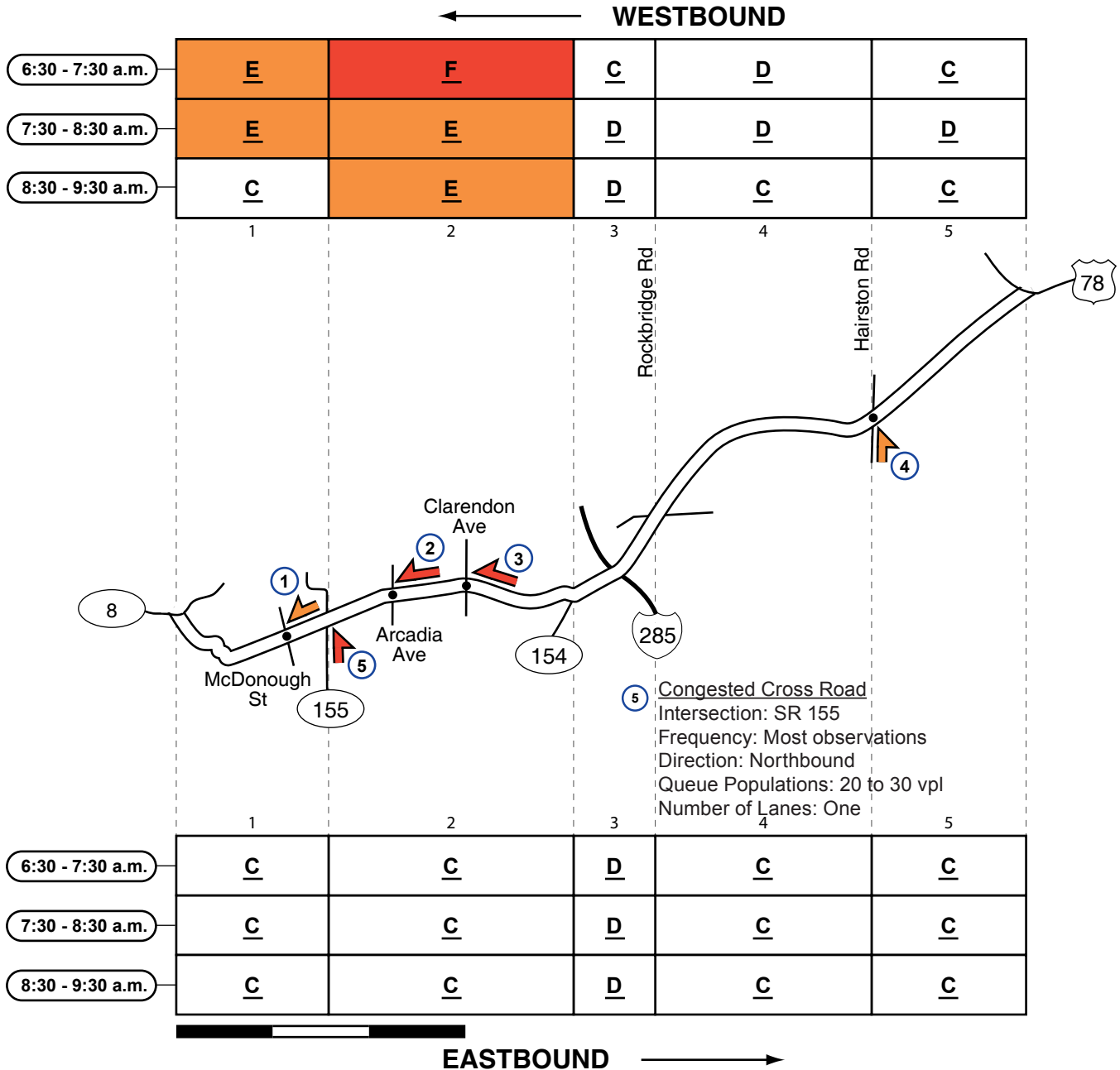
Traffic Quality Rating



SR 9 (FULTON & FORSYTH COUNTIES) - EVENING

- ① Signal Queue
Intersection: SR 20 (Buford Dam Rd)
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ② Congested Cross Road
Road Name: SR 369
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ③ Congested Cross Road
Road Name: SR 369
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ④ Congested Cross Road
Road Name: Mullinax Rd
Frequency: Middle hour
Direction: Northbound
Queue Population: 20 to 25 vpl
Number of Lanes: One
- ⑫ Signal Queues
Intersections: Old Roswell St & Old Milton Pkwy
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑮ Signal Queue/Platoons
Intersection: Windward Pkwy
Frequency: Intermittent
Direction: Northbound
Queue/Platoon Populations: 20 to 30 vpl
Number of Lanes: One
- ⑰ Signal Queue
Intersection: McFarland Rd
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑱ Signal Queue
Intersection: Grassland Pkwy
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
Note: In some cases, northbound congestion at Grassland Pkwy extended back through the upstream signal at McFarland Rd.
- ⑳ Signal Queue
Intersection: Hembree St
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ㉒ Signal Queue
Intersection: Cogburn Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ㉓ Signal Queue
Intersection: Vaughn Dr
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ㉔ Congested Cross Road
Road Name: Willis Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ㉕ Congested Cross Road
Road Name: Bethelview Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ㉗ Congested Cross Road
Road Name: SR 20
Frequency: Most observations before 6:00 p.m.
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

SR 10 (DEKALB COUNTY) - MORNING



① Signal Queue
Intersection: McDonough St
Frequency: Most observations before 8:00 a.m.
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

③ Signal Queue
Intersection: Clarendon Ave
Frequency: Most observations before 8:00 a.m.
Direction: Westbound
Queue Populations: 20 to 90 vpl
Number of Lanes: One

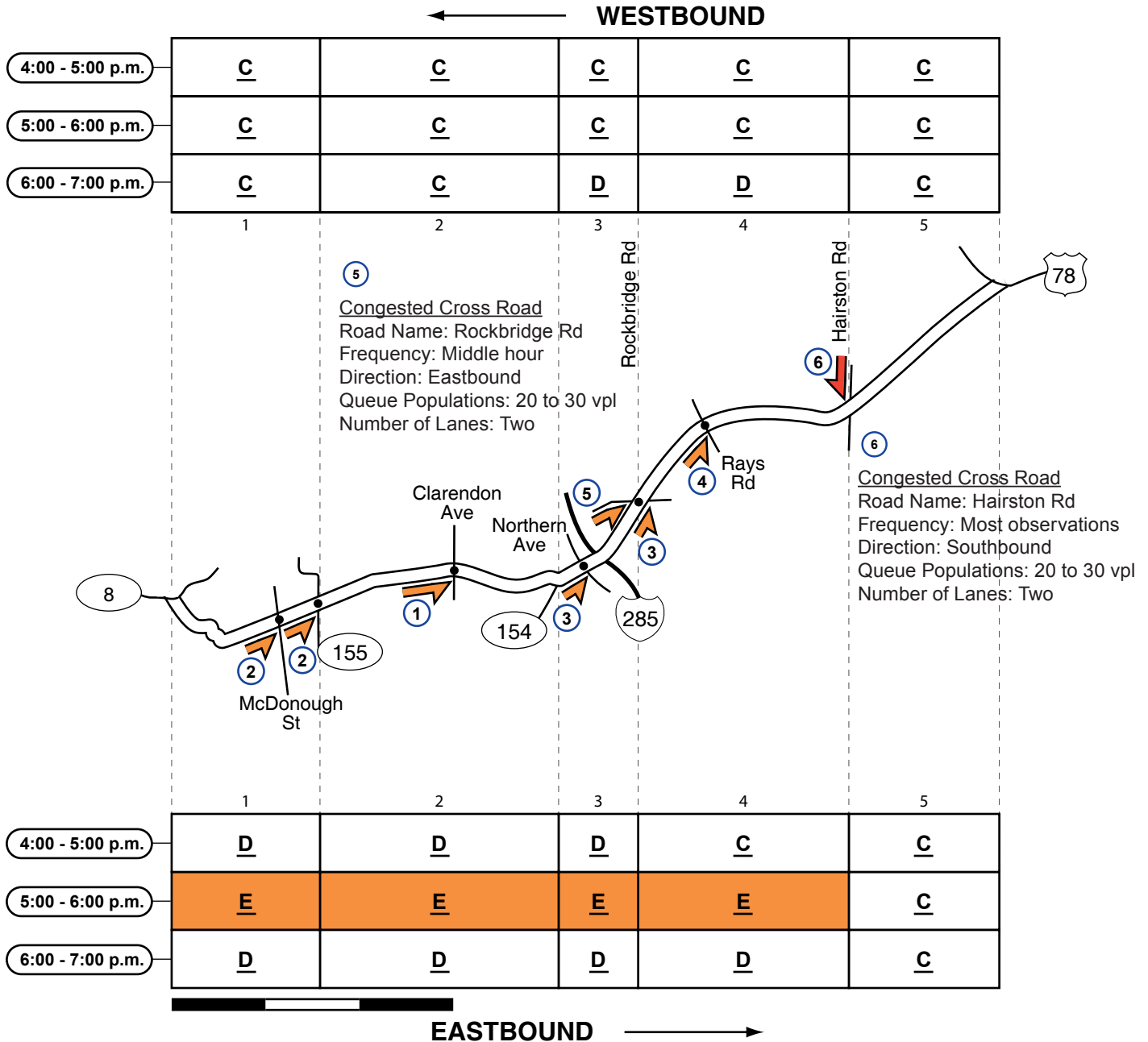
② Signal Queue
Intersection: Arcadia Ave
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 80 vpl
Number of Lanes: Two

④ Congested Cross Road
Road Name: Hairston Rd
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two (thru-lanes)

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 10 (DEKALB COUNTY) - EVENING



① Signal Queue
 Intersection: Clarendon Ave
 Frequency: Most observations before 6:00 p.m.
 Direction: Eastbound
 Queue Populations: 20 to 60 vpl
 Number of Lanes: One

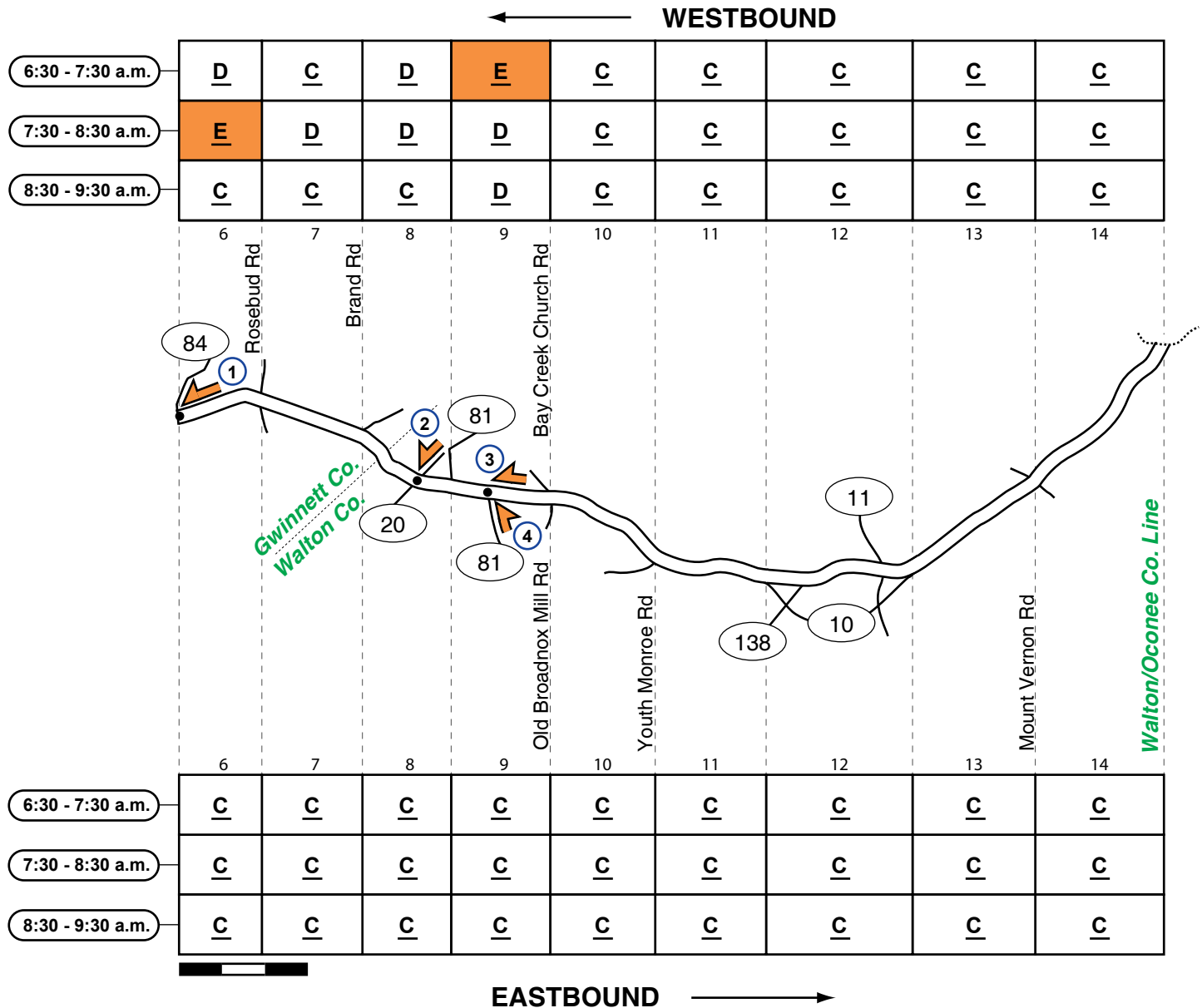
② Signal Queues
 Intersections: McDonough St & SR 155
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

③ Signal Queues
 Intersections: Northern Ave & Rockbridge Rd
 Frequency: Most observations before 6:00 p.m.
 Direction: Eastbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

④ Signal Queue
 Intersection: Rays Rd
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

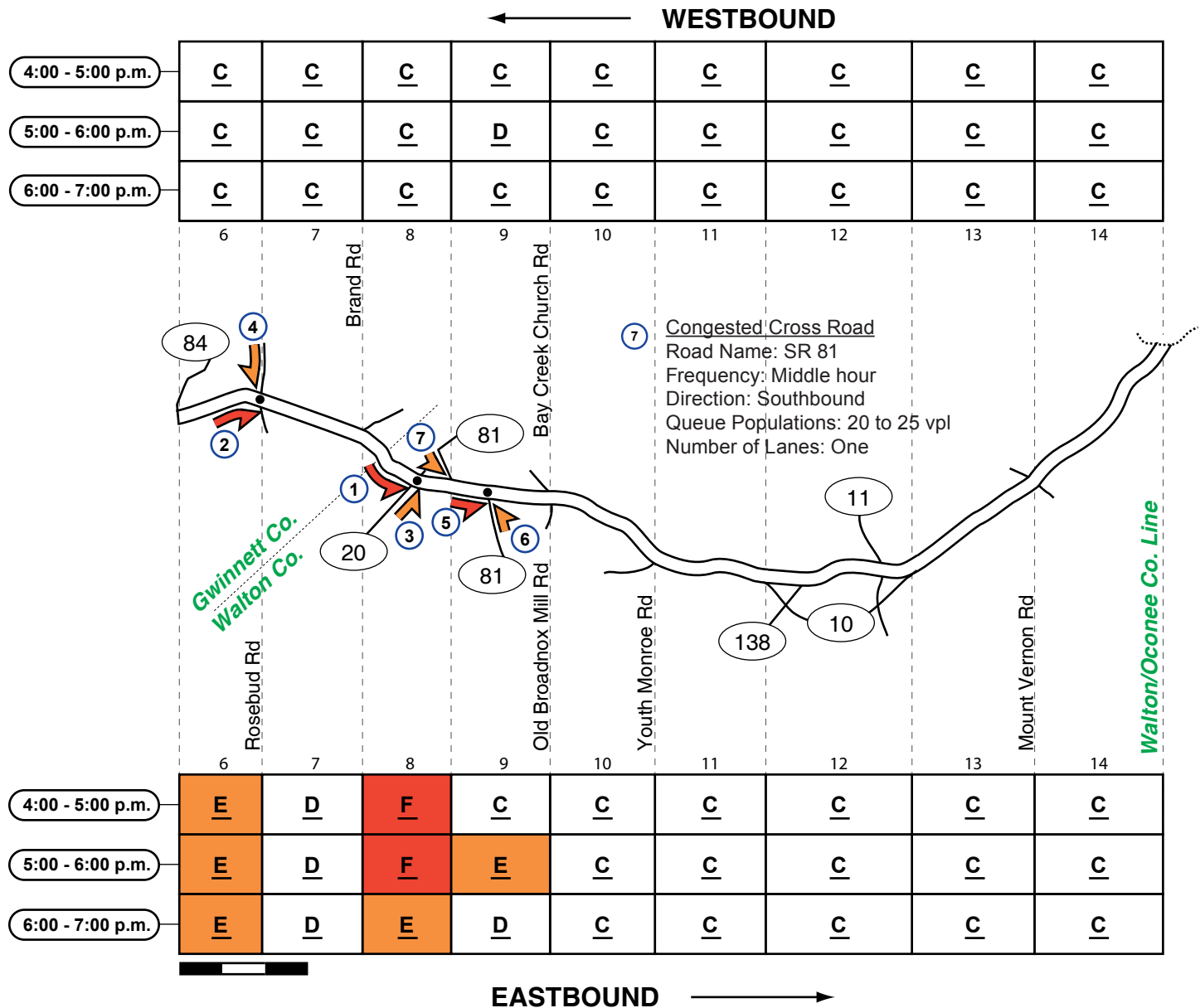
SR 10 & SR 10 BYPASS (GWINNETT & WALTON COUNTIES) - MORNING

- ① Signal Queue
Intersection: SR 84
Frequency: Intermittently before 8:30 a.m.
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
Note: In some cases, congestion at a downstream signal (Wisteria Dr) extended back through the signal at SR 84.
- ② Congested Cross Road
Road Name: SR 20
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ③ Signal Queue
Intersection: SR 81 / Lee Byrd Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- ④ Congested Cross Road
Road Name: SR 81
Frequency: Most observations
Direction: Northbound
Queue Populations: 30 to 55 vpl
Number of Lanes: One
Note: Head of queue in dedicated left-turn lane

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 10 & SR 10 BYPASS (GWINNETT & WALTON COUNTIES) - EVENING



① Signal Queue
 Intersection: SR 20
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 60 vpl
 Number of Lanes: Two

③ Congested Cross Road
 Road Name: SR 20
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

⑤ Signal Queue
 Intersection: SR 81 / Lee Byrd Rd
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: Two

② Signal Queue
 Intersection: Rosebud Rd
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: Two

④ Congested Cross Road
 Road Name: Rosebud Rd
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

⑥ Congested Cross Road
 Road Name: SR 10
 Frequency: Peak Period
 Direction: Northbound
 Queue Populations: 20 to 80 vpl
 Number of Lanes: One
 Note: Head of queue in dedicated left-turn lane

Traffic Quality Rating

A
Very Light

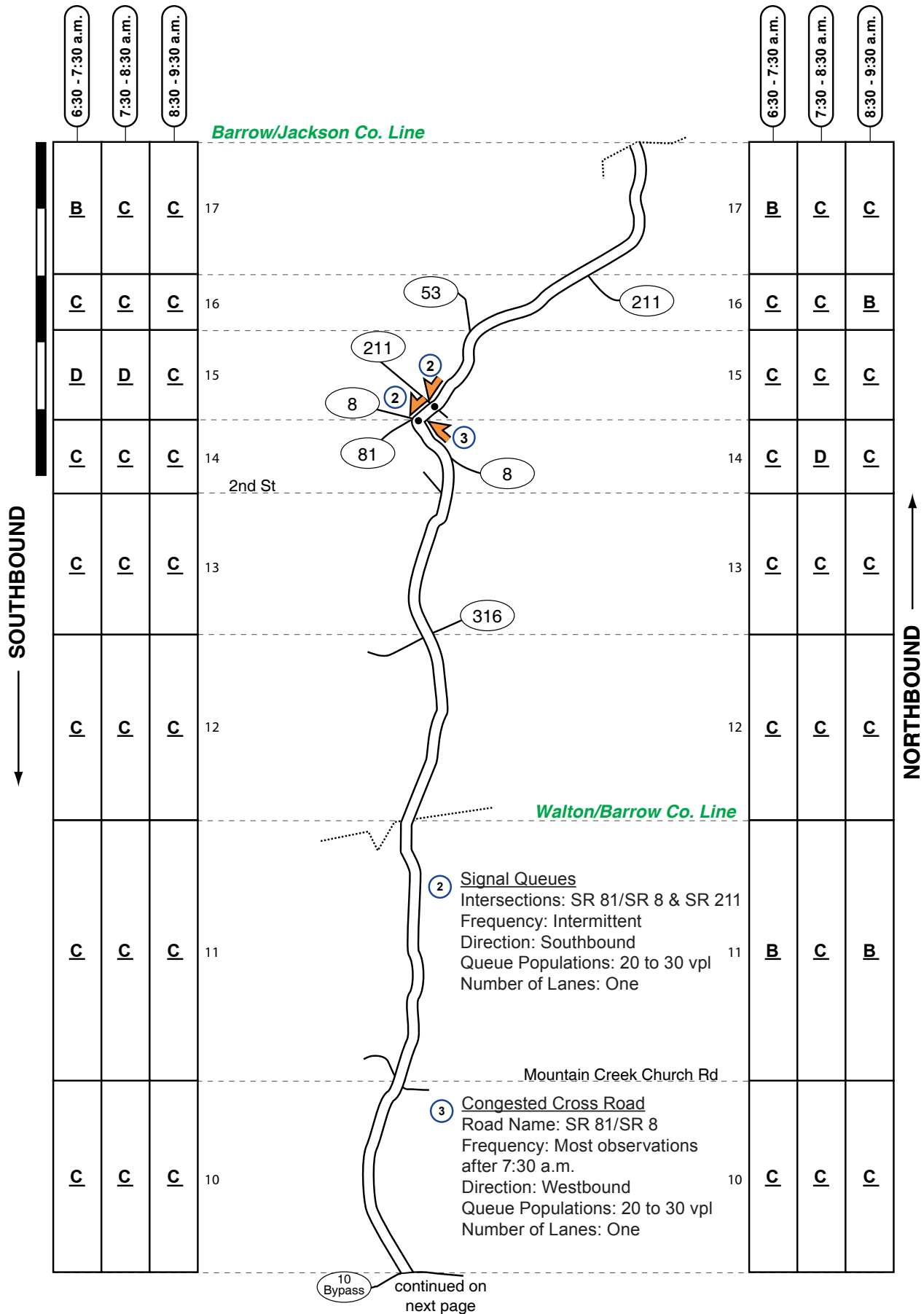
B
Light

C
Moderate

D
Heavy

E
Congested

F
Severe

SR 11 (BARROW/WALTON & NEWTON COUNTIES) - MORNING

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

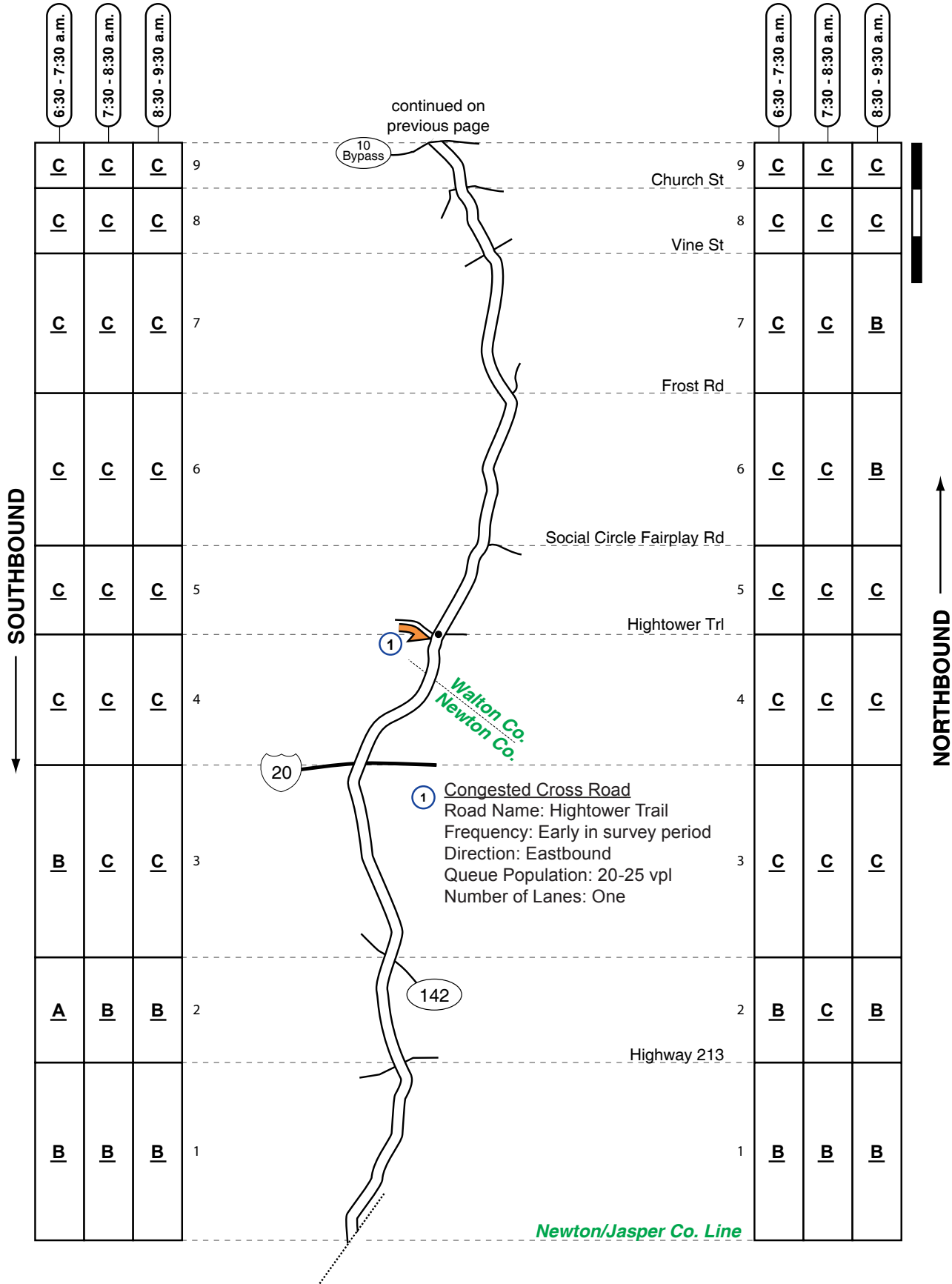
E

Congested

F

Severe

SR 11 (BARROW/WALTON & NEWTON COUNTIES) - MORNING



Traffic Quality Rating

A
Very Light

B
Light

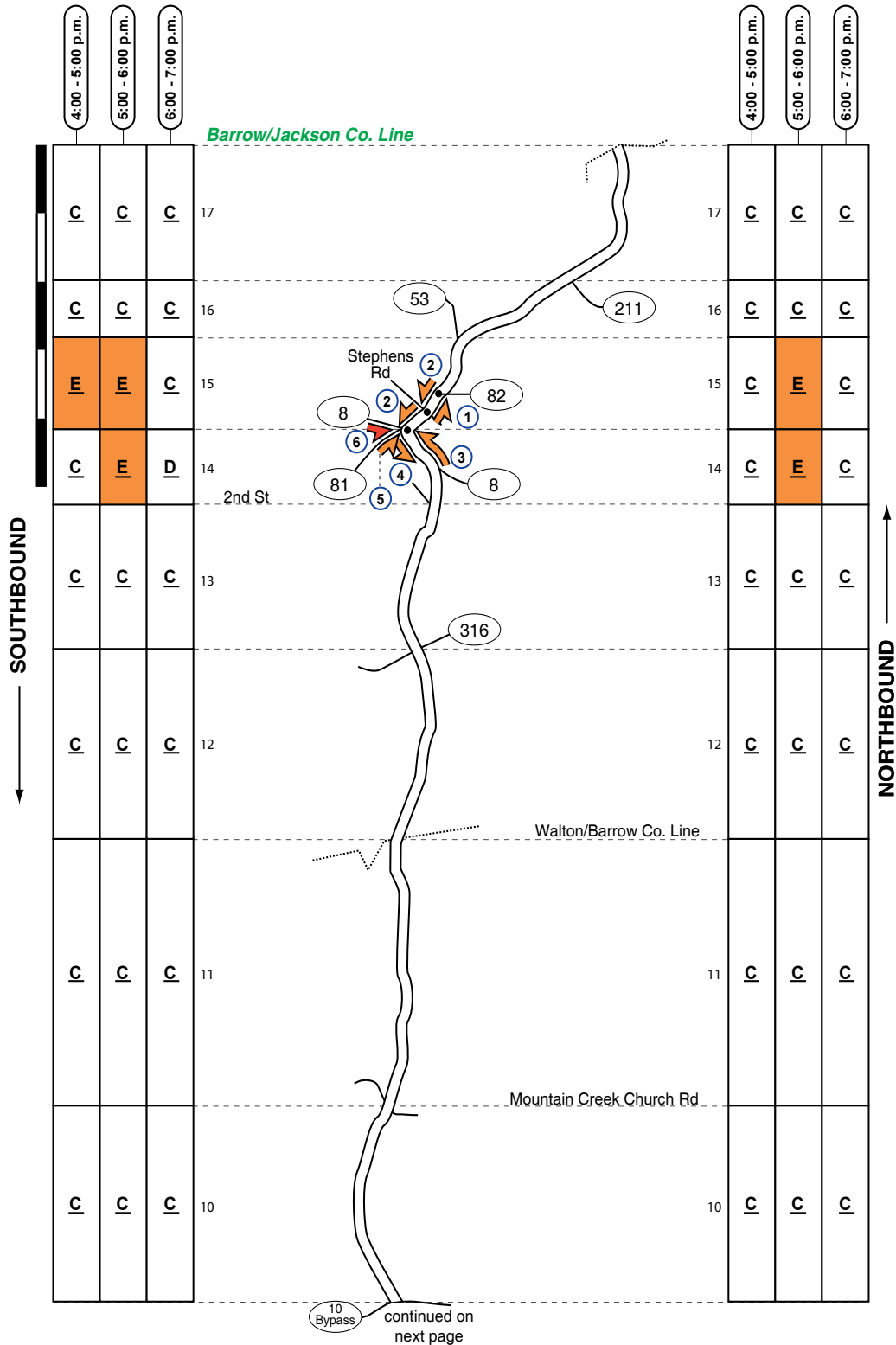
C
Moderate

D
Heavy

E
Congested

F
Severe

SR 11 (BARROW/WALTON & NEWTON COUNTIES) - EVENING



① Signal Queue

Intersection: SR 82
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

② Signal Queues

Intersections: Stephens St & SR 8
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

③ Signal Queue

Intersection: SR 81
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

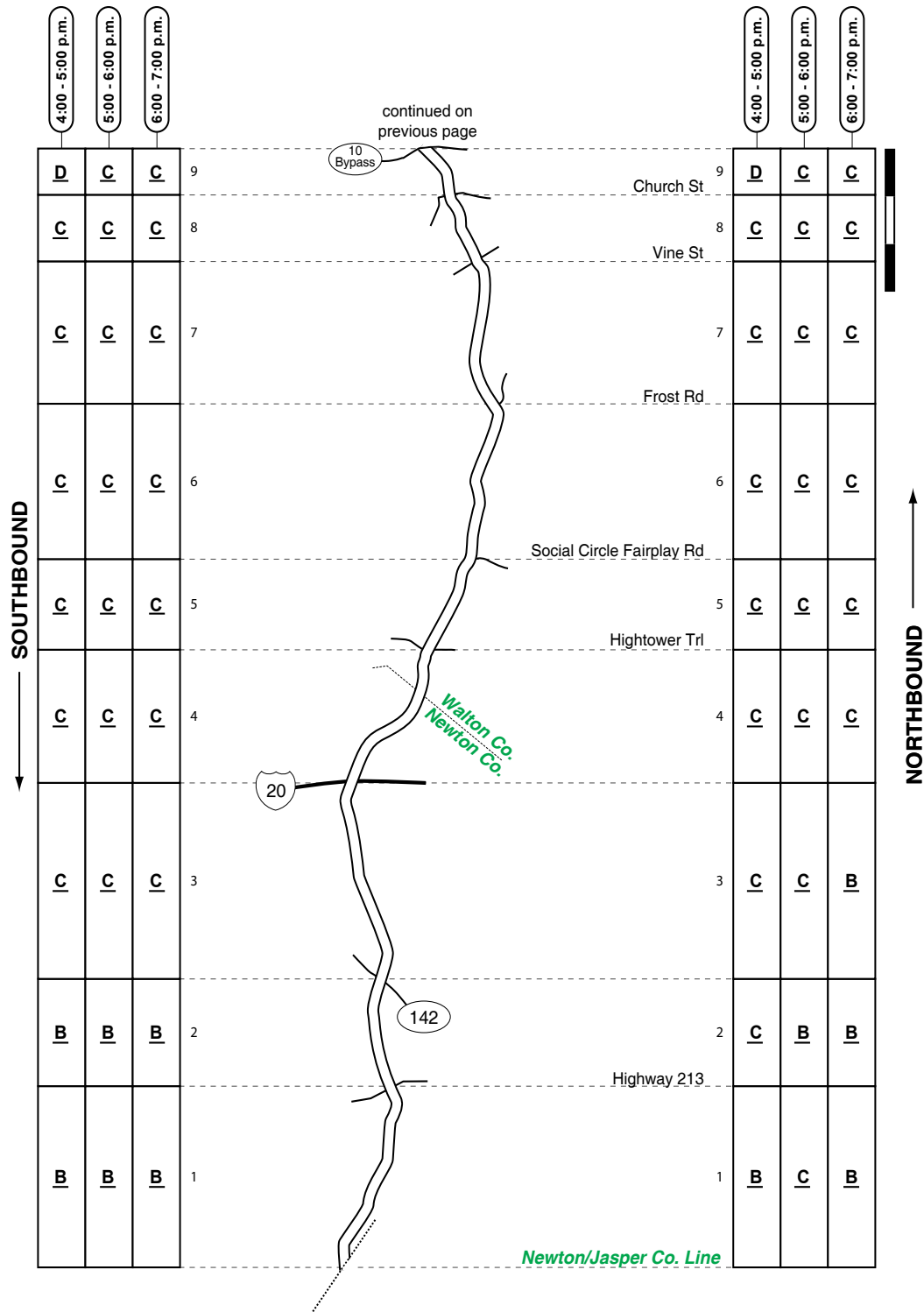
E

Congested

F

Severe

SR 11 (BARROW/WALTON & NEWTON COUNTIES) - EVENING



4 Platoons
 Location: Between SR 81 and SR 8
 Frequency: Between 5:00 and 6:30 p.m.
 Direction: Southbound
 Platoon Populations: 25 to 30 vpl
 Number of Lanes: One

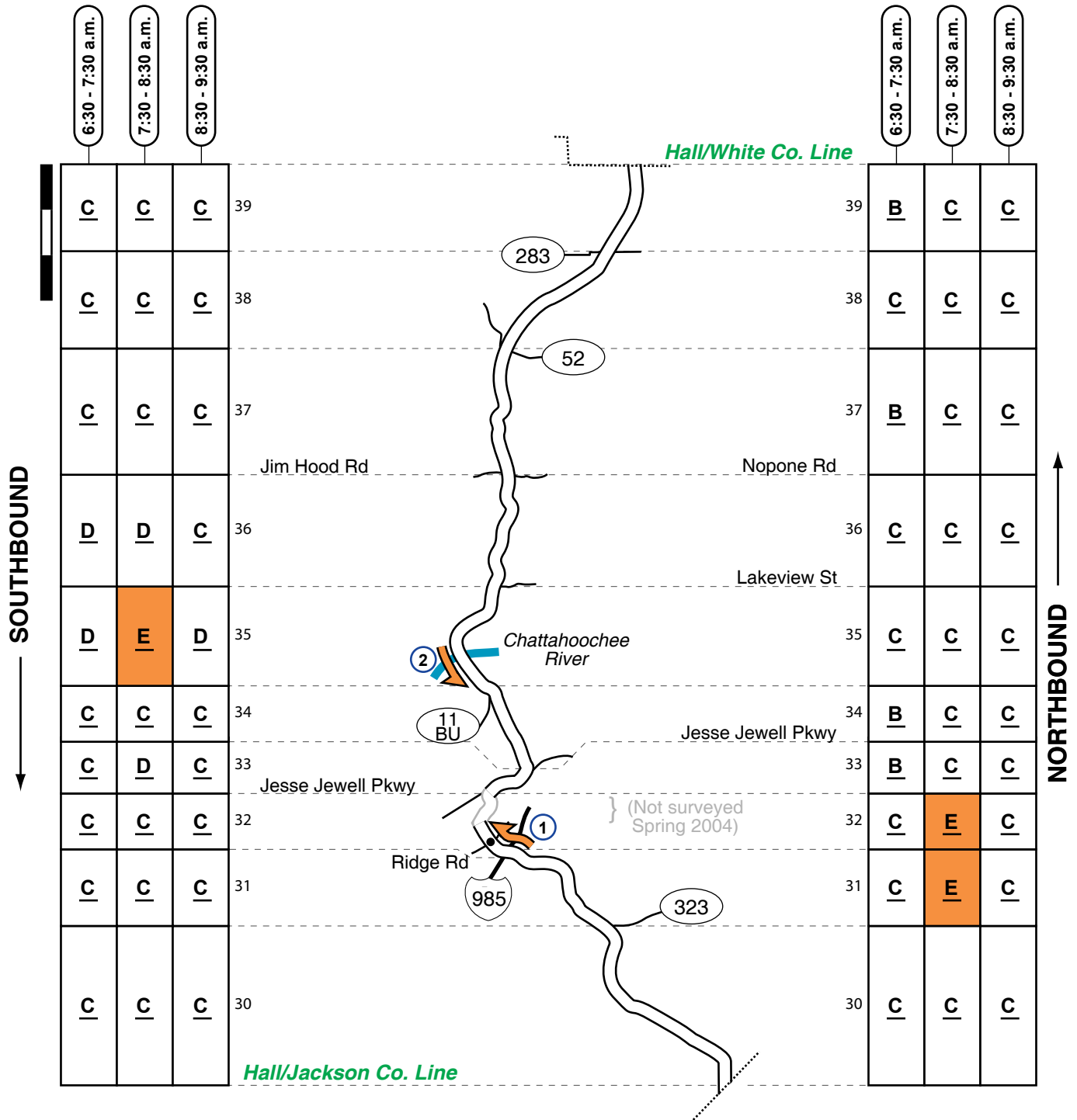
5 Congested Cross Road
 Road Name: SR 8 / SR 81
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

6 Congested Cross Road
 Road Name: SR 8 / SR 81
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 11 (HALL COUNTY) - MORNING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

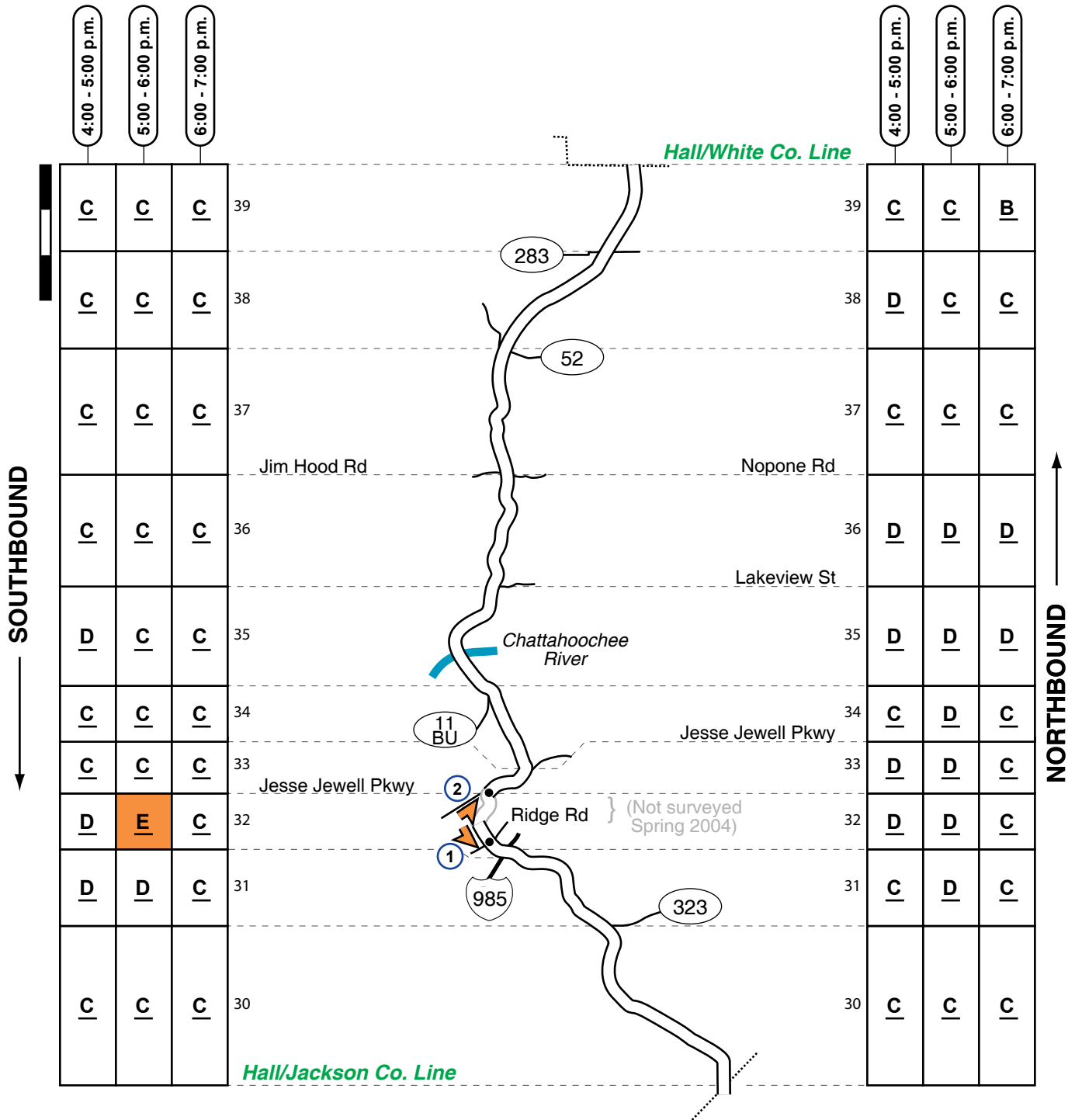
E

Congested

F

Severe

SR 11 (HALL COUNTY) - EVENING



Traffic Quality Rating

A
Very Light

B
Light

C
Moderate

D
Heavy

E
Congested

F
Severe

SR 11 BU (HALL COUNTY) - MORNING

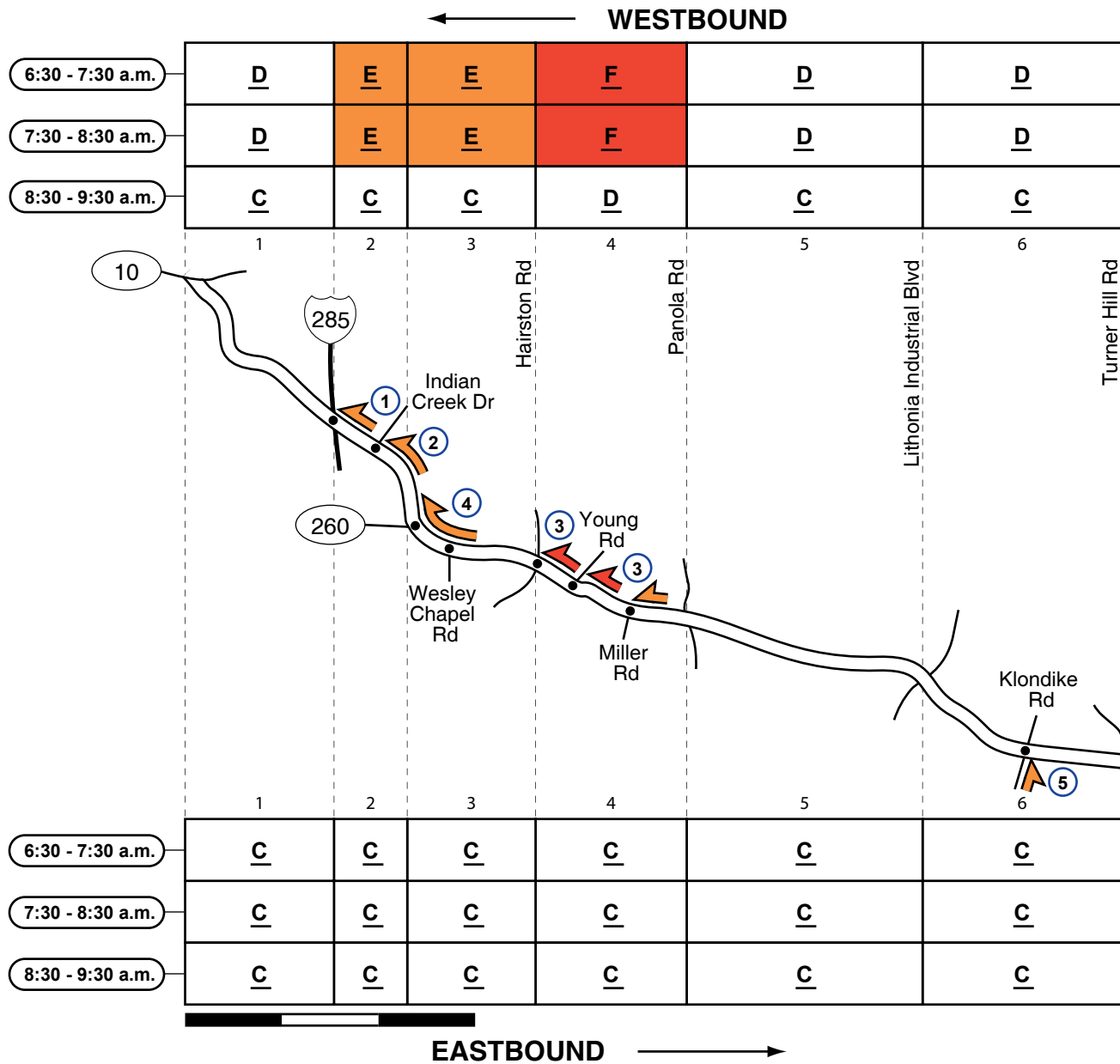


- ① Signal Queue
 Intersection: Enota Dr
 Frequency: Middle hour
 Direction: Southbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 12 (DEKALB COUNTY) - MORNING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

F

Severe

SR 12 (DEKALB COUNTY) - MORNING

- ① Signal Queue
 Intersection: I-285
 Frequency: Most observations before 8:30 a.m.
 Direction: Westbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two
- ② Signal Queue
 Intersection: Indian Creek Dr
 Frequency: Most observations before 8:30 a.m.
 Direction: Westbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: Two
- ③ Signal Queues
 Intersections: Miller Rd, Young Rd & Hairston Rd
 Frequency: Most observations before 8:30 a.m.
 Direction: Westbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: Two (thru-lanes)
- ④ Platoons
 Location: Vicinity of signals at SR 260 and Wesley Chapel Road
 Frequency: Most observations before 8:30 a.m.
 Direction: Westbound
 Platoon Populations: 25 to 35 vpl
 Number of Lanes: Two
- ⑤ Congested Cross Road
 Road Name: Klondike Rd
 Frequency: Early in survey period (intermittent)
 Direction: Northbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

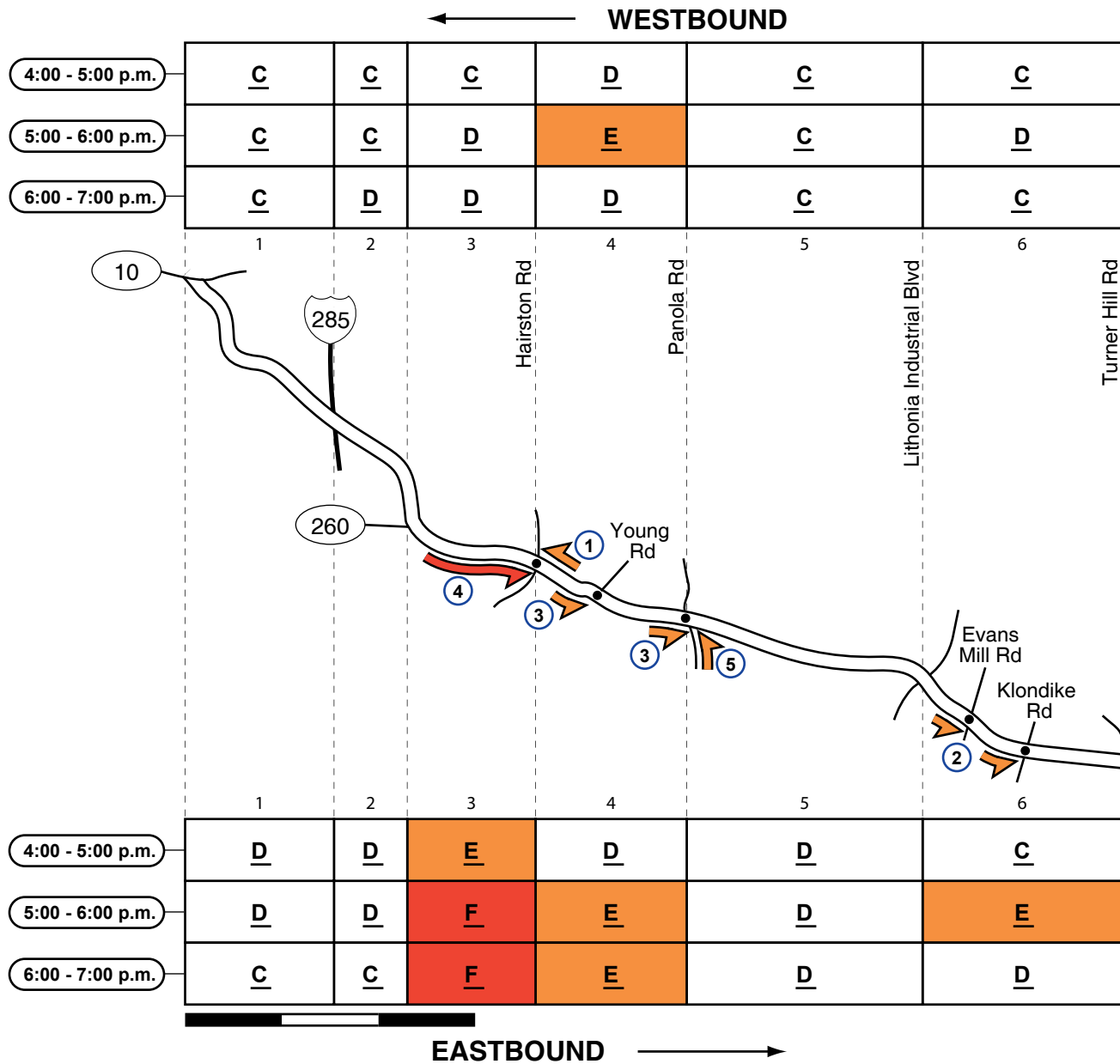
E

Congested

F

Severe

SR 12 (DEKALB COUNTY) - EVENING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

F

Severe

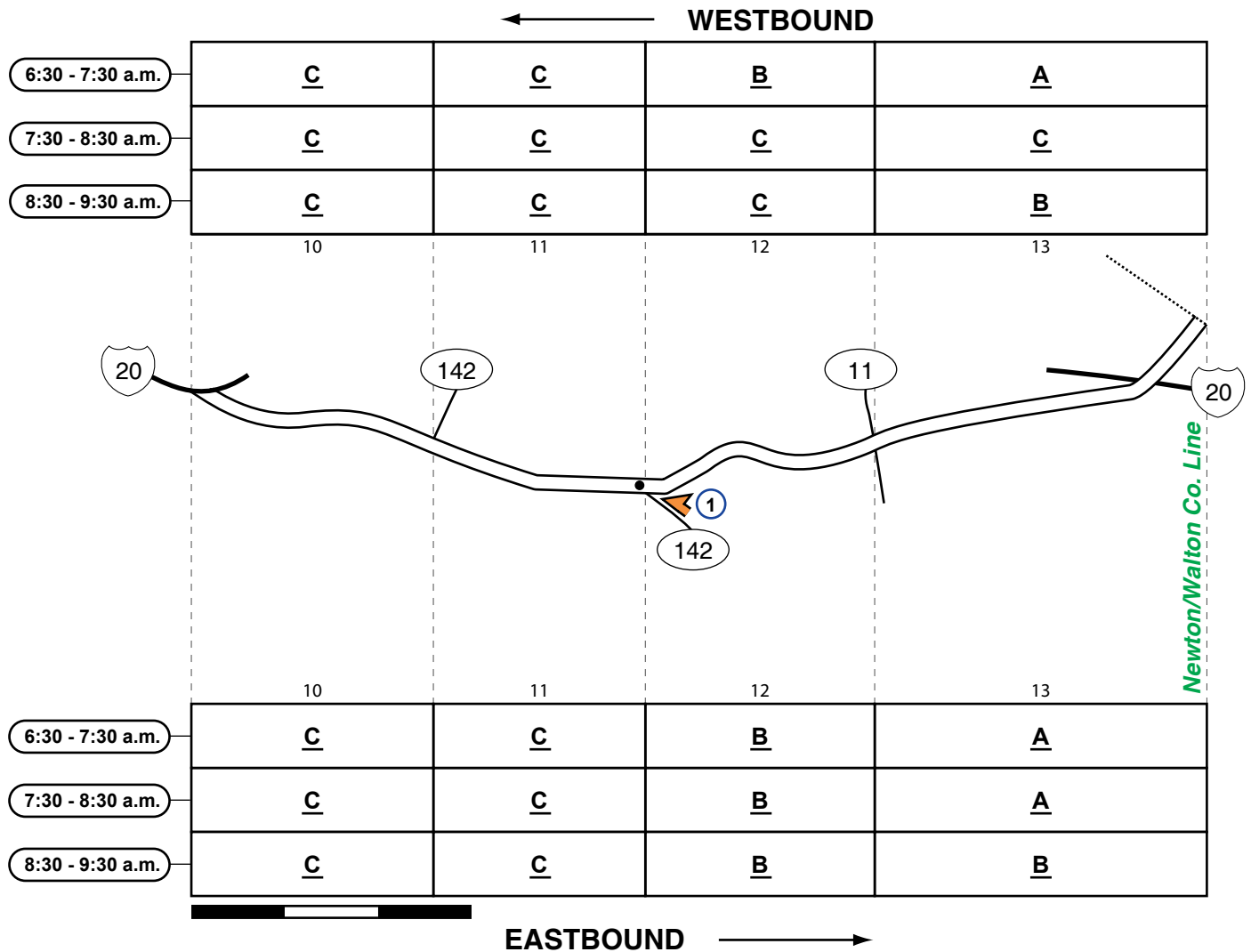
SR 12 (DEKALB COUNTY) - EVENING

- ① Signal Queue
Intersection: Hairston Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ② Signal Queues
Intersections: Evans Mill Rd & Klondike Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ③ Signal Queues
Intersections: Young Rd & Panola Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: Hairston Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 30 to 120 vpl
Number of Lanes: Two
Note: During several observations, the signal queue at Hairston Rd contained over 100 vehicles per lane.
- ⑤ Congested Cross Road
Road Name: Panola Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 12 (NEWTON COUNTY) - MORNING

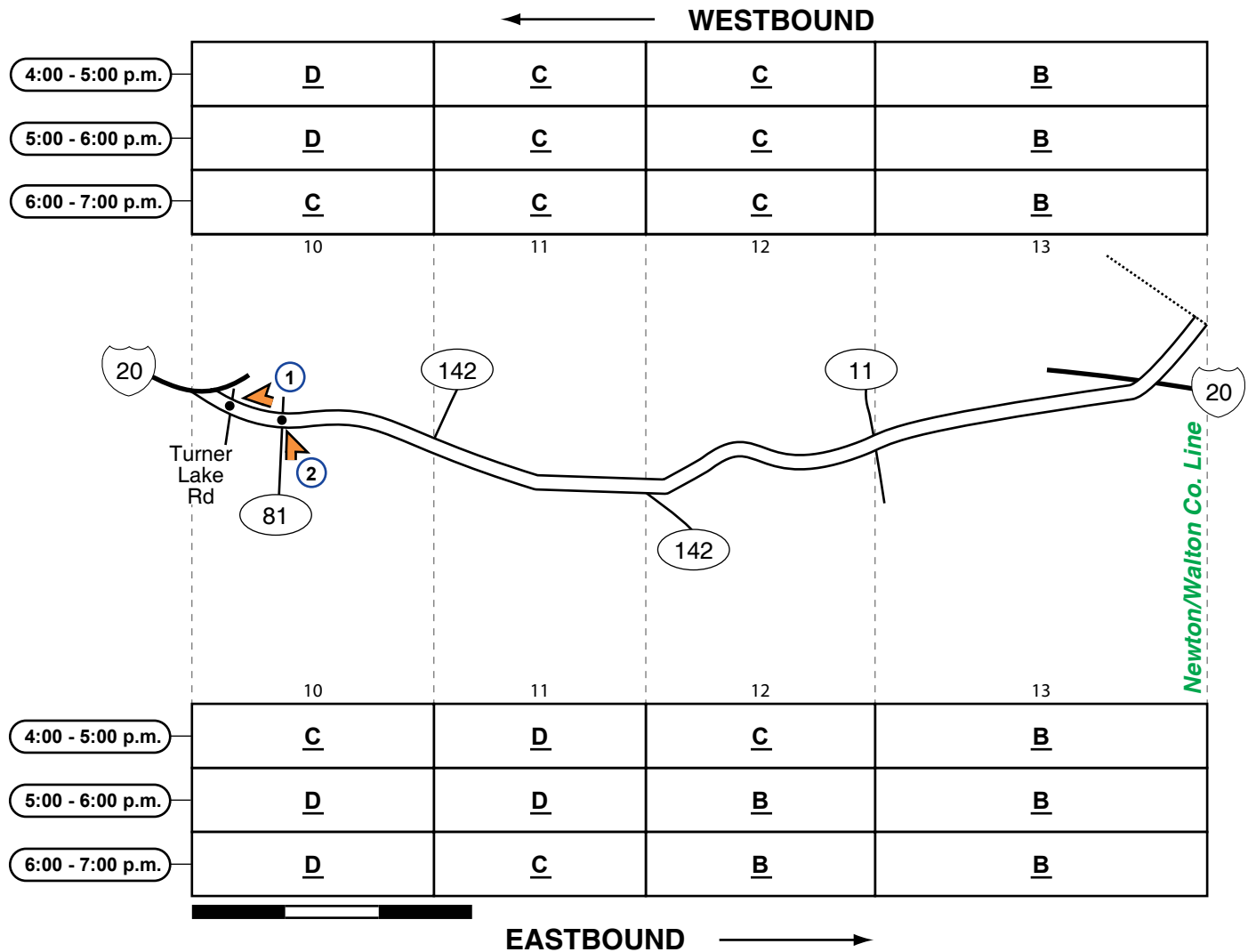


- ① Congested Cross Road
 Road Name: SR 142
 Frequency: Intermittent during middle hour
 Direction: Northbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

Traffic Quality Rating

A
Very LightB
LightC
ModerateD
HeavyE
CongestedF
Severe

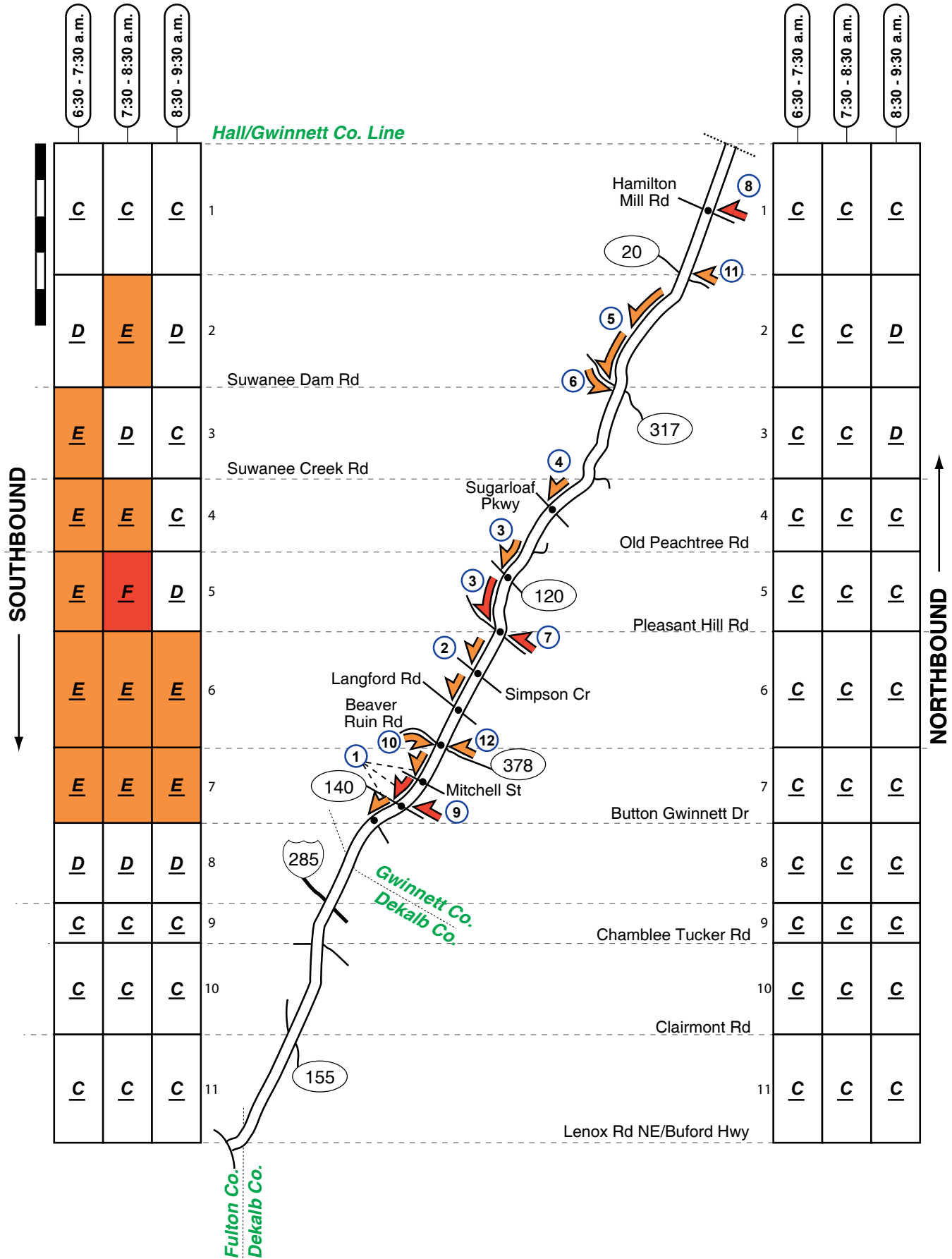
SR 12 (NEWTON COUNTY) - EVENING



- ① Signal Queue
 Intersection: Turner Lake Rd
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One (Dedicated left-turn lane)

- ② Congested Cross Road
 Intersection: SR 81
 Frequency: Middle hour
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One
 Note: Intermittent queuing found just north of SR 12 at railroad crossing

SR 13 (GWINNETT/DEKALB & FULTON COUNTIES) - MORNING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

F

Severe

SR 13 (GWINNETT/DEKALB & FULTON COUNTIES) - MORNING

- ① Signal Queues
Intersection: Mitchell St
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

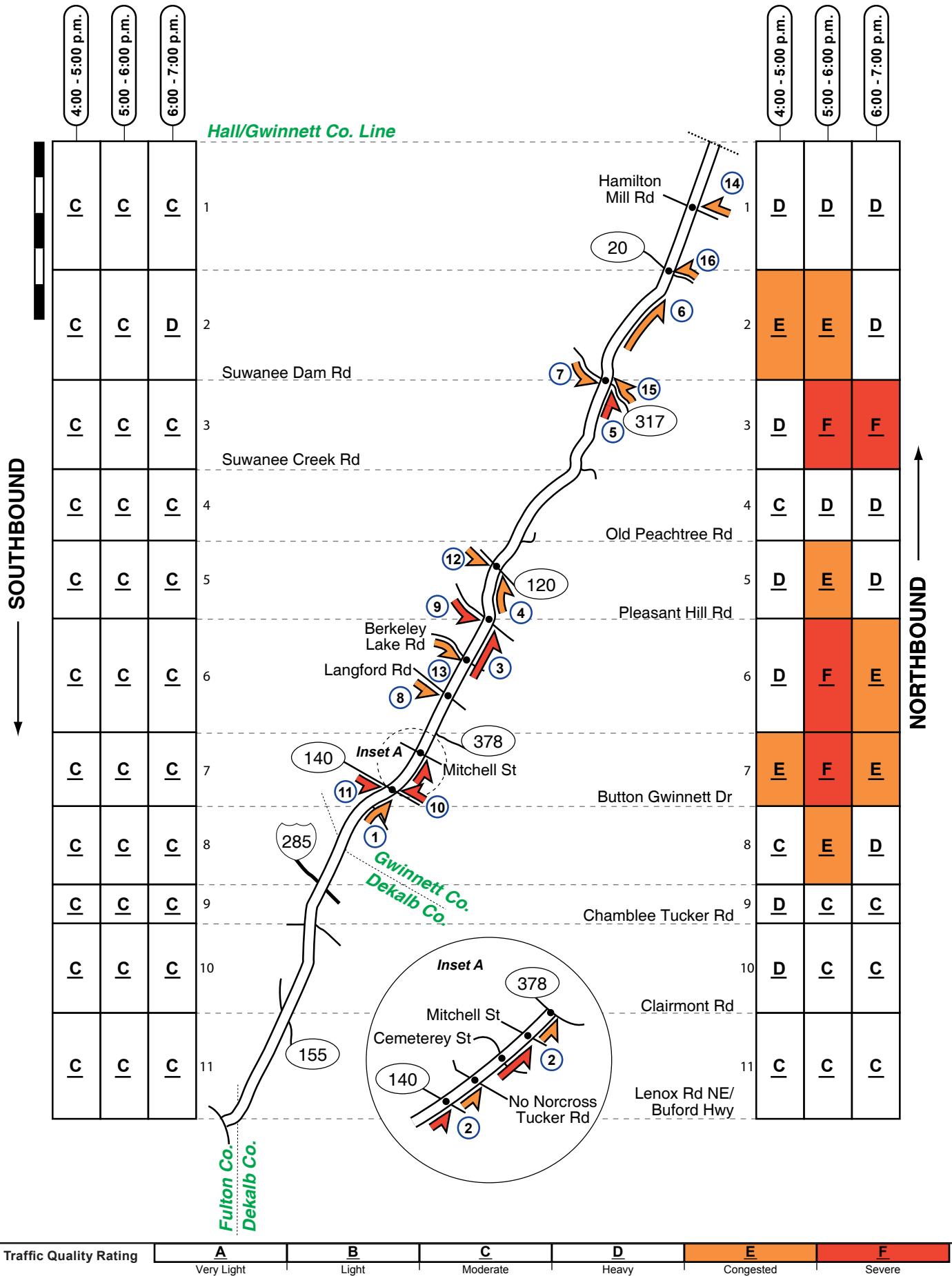
Intersection: SR 140
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 70 vpl
Number of Lanes: Two

Intersection: Button Gwinnett Dr
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ② Signal Queues
Intersection: Simpson Circle
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Intersection: Langford Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ③ Signal Queues
Intersection: SR 120
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Intersection: Pleasant Hill Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 80 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: Sugarloaf Parkway
Frequency: Most observations before 8:30 a.m.
Direction: Southbound
Queue Populations: 20 to 45 vpl
Number of Lanes: One
- ⑤ Platoons
Location: Between SR 20 and SR 317
Frequency: Middle hour
Direction: Southbound
Platoon Populations: 25 to 40 vpl
Number of Lanes: One
- ⑥ Congested Cross Road
Road Name: Suwanee Dam Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- ⑦ Congested Cross Road
Road Name: Pleasant Hill Rd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑧ Congested Cross Road
Road Name: Hamilton Mill Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One (left lane)
Note: Head of queue in left-turn bay at signal
- ⑨ Congested Cross Road
Road Name: SR 140
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑩ Congested Cross Road
Road Name: Beaver Run Rd / SR 378
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑪ Congested Cross Road
Road Name: SR 20
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- ⑫ Congested Cross Road
Road Name: SR 378
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

SR 13 (GWINNETT/DEKALB & FULTON COUNTIES) - EVENING

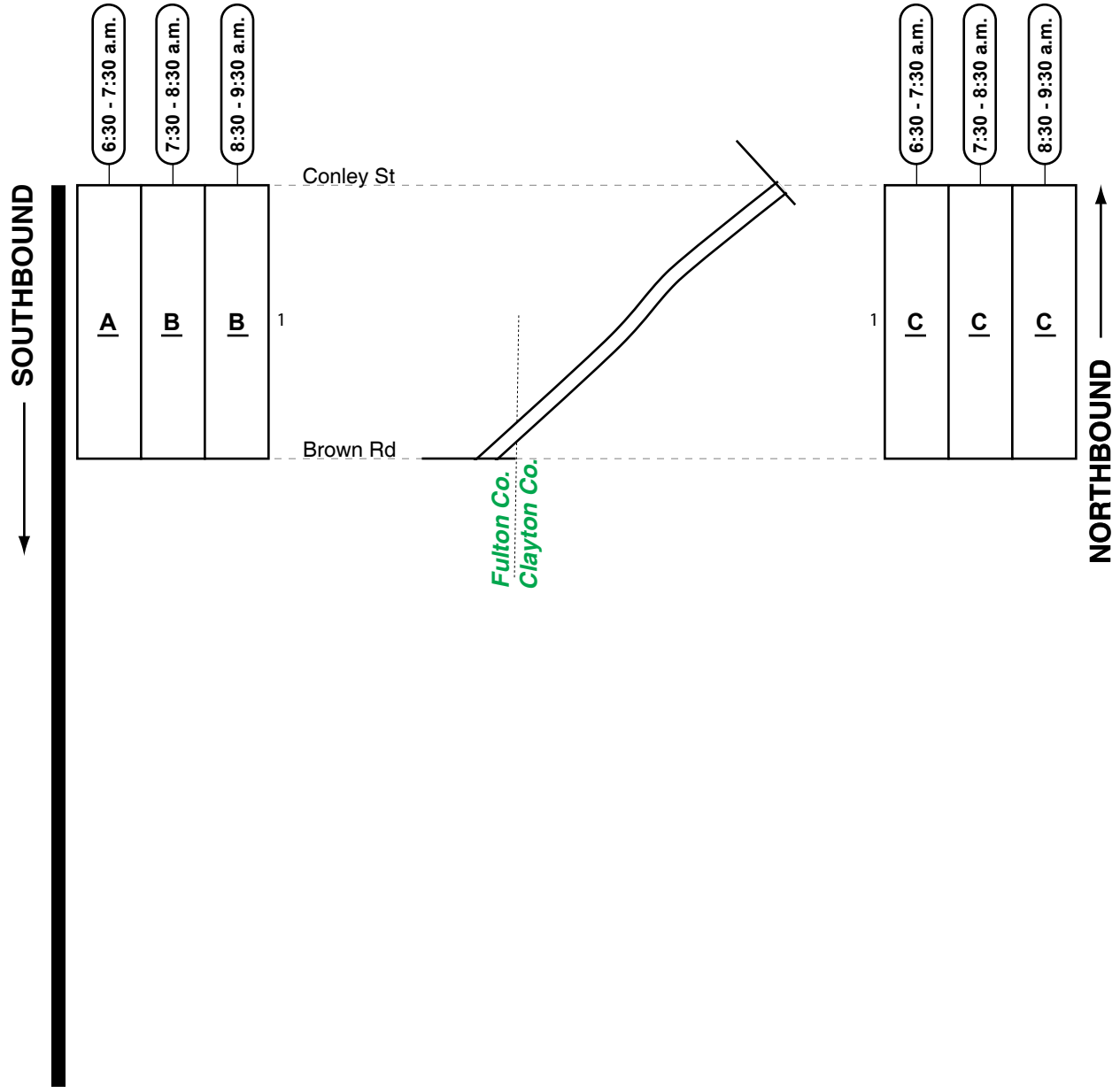


SR 13 (GWINNETT/DEKALB & FULTON COUNTIES) - EVENING

- ① Platoons
Location: Vicinity of the signal at Button Gwinnett Dr
Frequency: Middle hour
Direction: Northbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: Two
- ② Signal Queues
Intersections: No Norcross Tucker St, Cemetery St, Mitchell Rd, SR 140 & SR 378
Frequency: Most observations
Direction: Northbound
Queue Populations: 25 to 90 vpl
Number of Lanes: Two
Note: During the middle hour, congestion intermittently backed through an upstream signal.
- ③ Signal Queues
Intersection: Pleasant Hill Rd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 75 vpl
Number of Lanes: Two

Intersection: Berkeley Lake Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 35 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: SR 120
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑤ Signal Queue
Intersection: SR 317
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 100 vpl
Number of Lanes: One
- ⑥ Platoons
Location: Between SR 317 and SR 20
Frequency: Most observations before 6:00 p.m.
Direction: Northbound
Platoon Populations: 25 to 40 vpl
Number of Lanes: One
- ⑦ Congested Cross Road
Road Name: Suwanee Dam Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑧ Congested Cross Road
Road Name: Langford Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑨ Congested Cross Road
Road Name: Pleasant Hill Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two
- ⑩ Congested Cross Road
Road Name: SR 140
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 70 vpl
Number of Lanes: Two
- ⑪ Congested Cross Road
Road Name: SR 140
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two
- ⑫ Congested Cross Road
Road Name: SR 120
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑬ Congested Cross Road
Road Name: Berkeley Lake Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑭ Congested Cross Road
Road Name: Hamilton Mill Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One (left lane)
Note: Head of queue in the left-turn bay at SR 13
- ⑮ Congested Cross Road
Road Name: SR 317
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- ⑯ Congested Cross Road
Road Name: SR 20
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

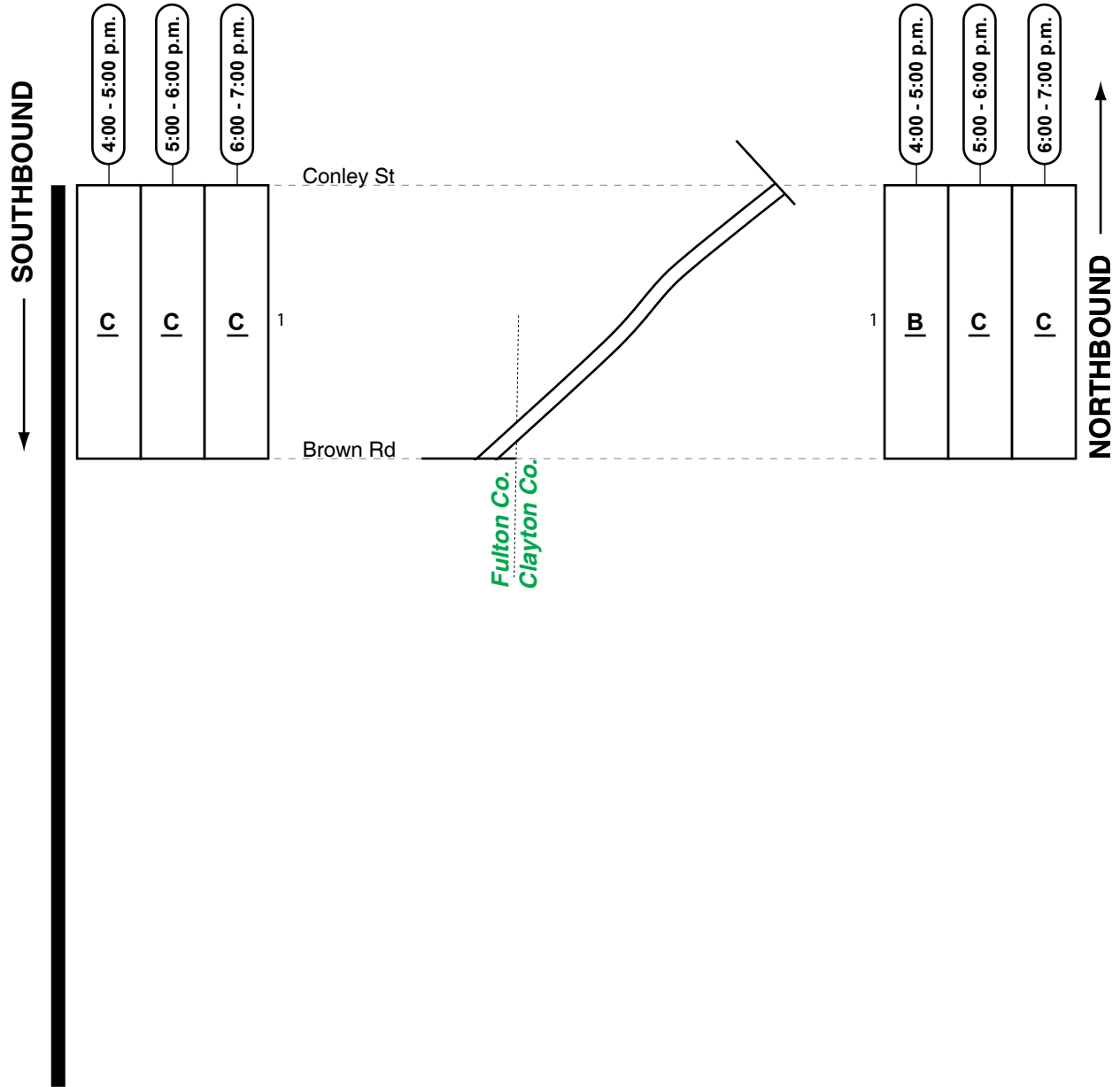
SR 14 (CLAYTON COUNTY) - MORNING



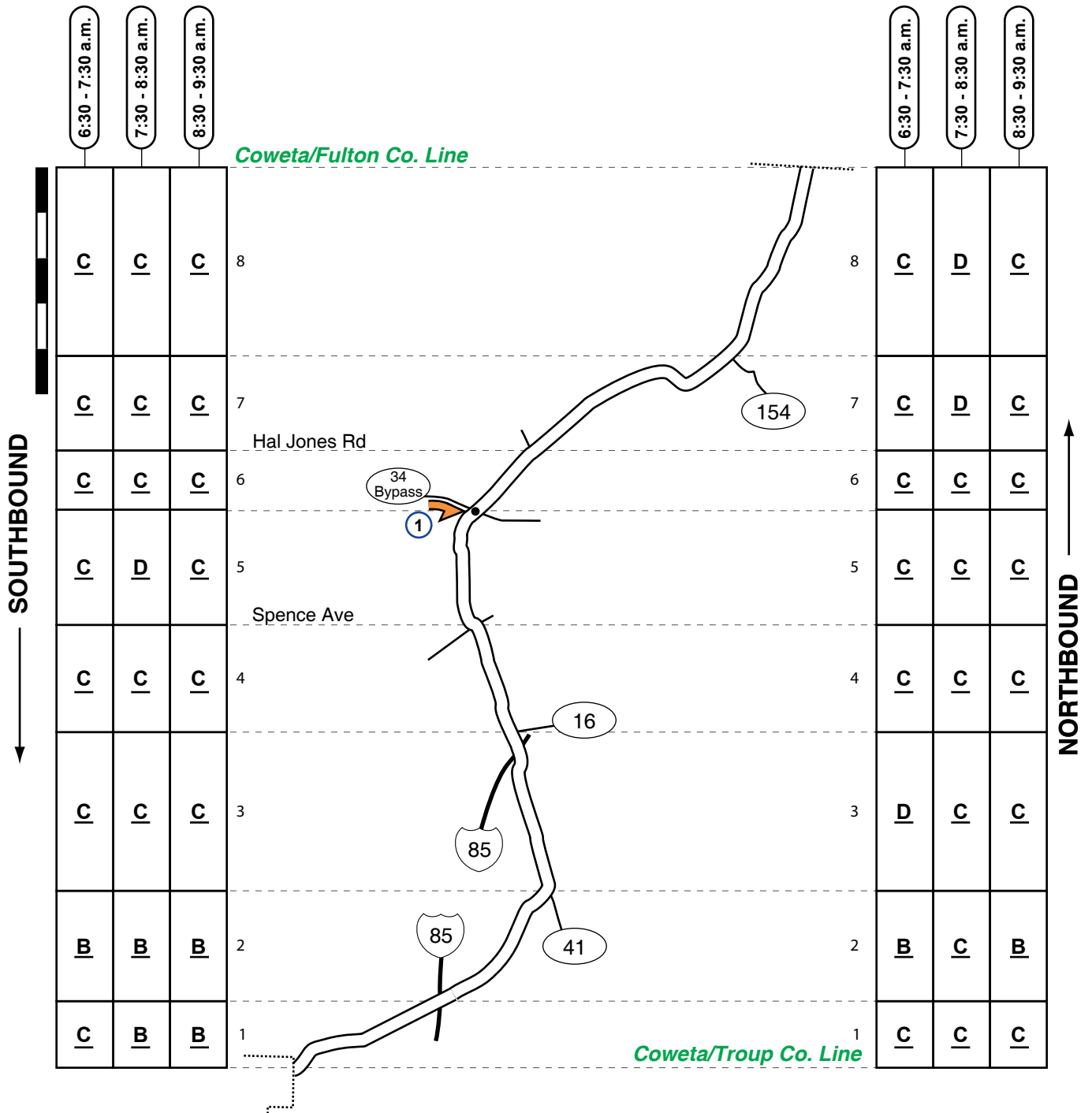
Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 14 (CLAYTON COUNTY) - EVENING



SR 14 (COWETA COUNTY) - MORNING

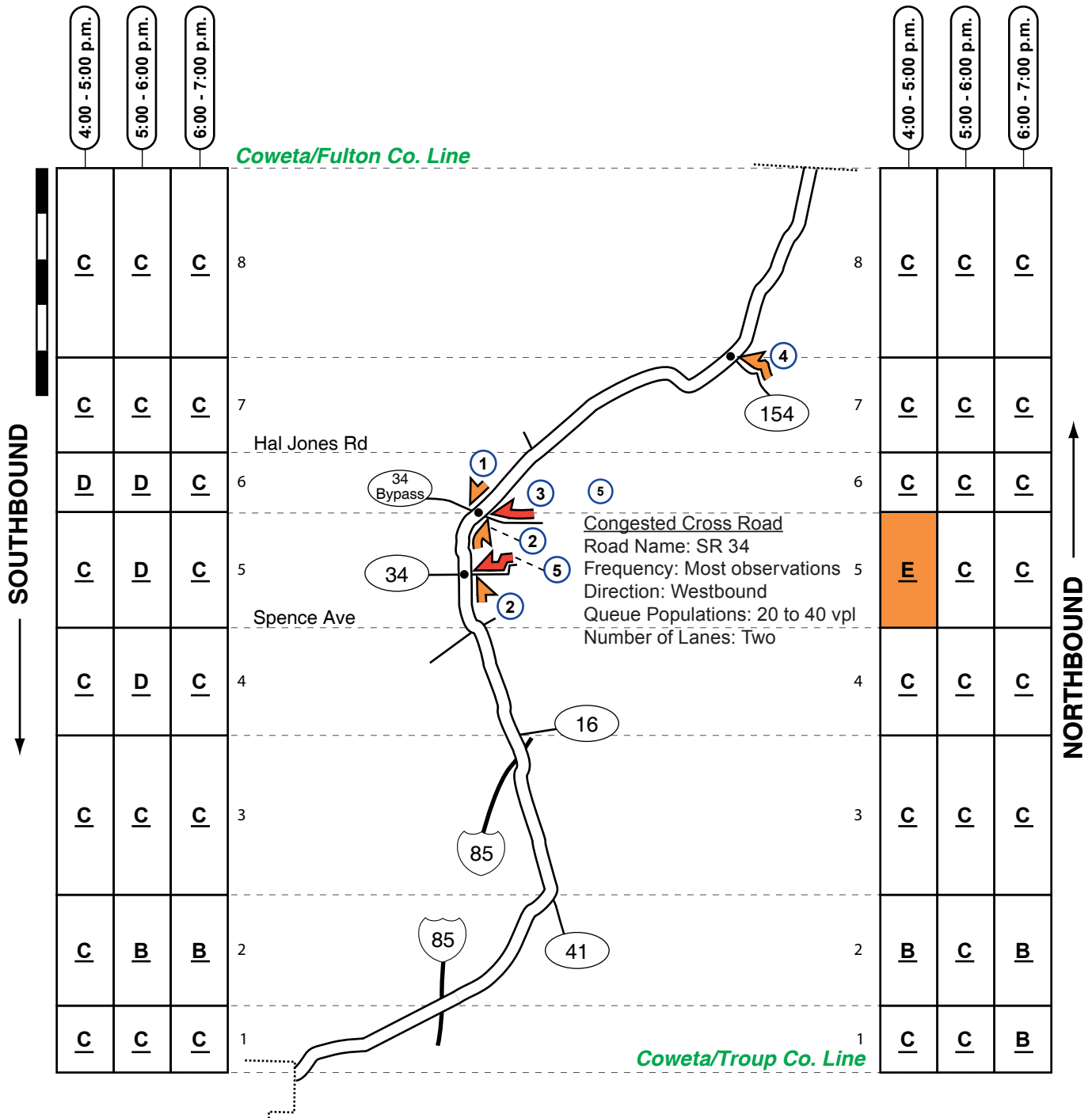


- ① **Congested Cross Road**
 Road Name: SR 14
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

Traffic Quality Rating

A
Very Light**B**
Light**C**
Moderate**D**
Heavy**E**
Congested**F**
Severe

SR 14 (COWETA COUNTY) - EVENING



- ① Signal Queue
 Intersection: SR 34 Bypass
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

- ② Signal Queues
 Intersections: SR 34 & SR 34 Bypass
 Frequency: Early in the survey period
 Direction: Northbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

- ③ Congested Cross Road
 Road Name: SR 34 Bypass
 Frequency: Most observations
 Direction: Westbound
 Queue Populations: 20 to 80 vpl
 Number of Lanes: One

- ④ Congested Cross Road
 Road Name: SR 154
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 45 vpl
 Number of lanes: One

Traffic Quality Rating

A
Very Light

B
Light

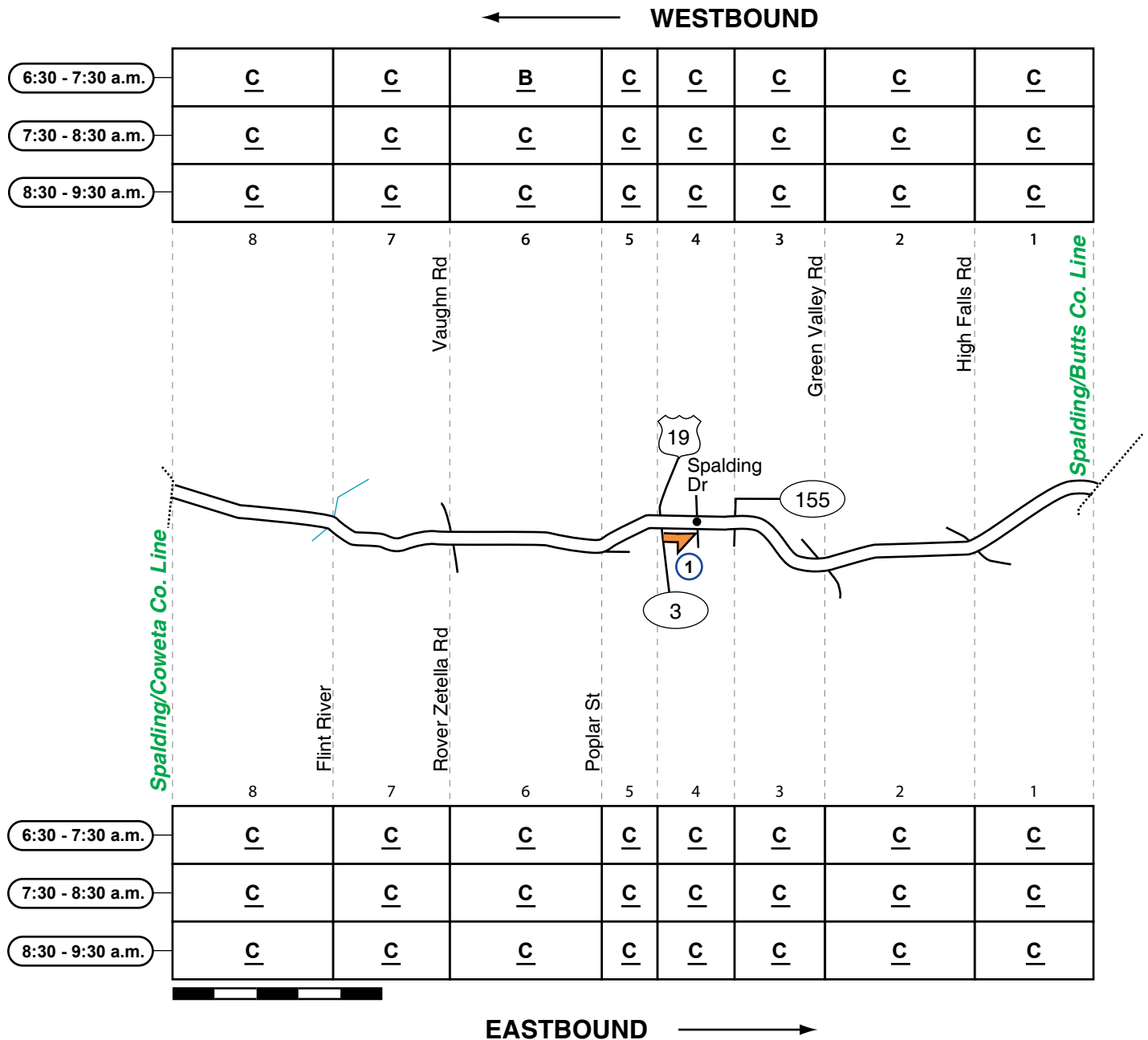
C
Moderate

D
Heavy

E
Congested

F
Severe

SR 16 (SPALDING COUNTY) - MORNING

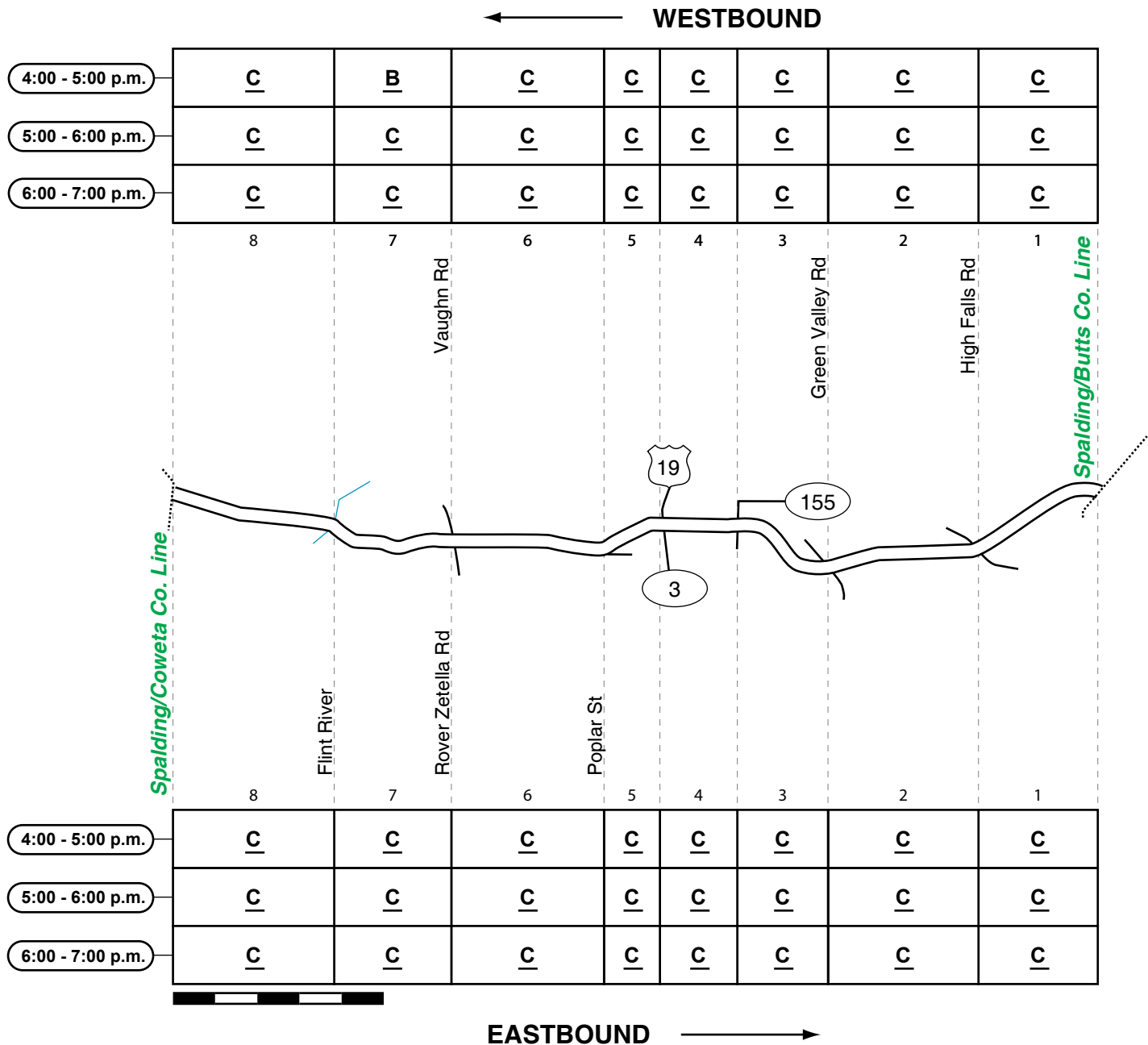


- ① Signal Queue
 Intersection: Spalding Dr
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: One (of two)
 Note: Head of queue in left-turn bay; queue extended back into the left lane of SR 16.

Traffic Quality Rating

A
Very LightB
LightC
ModerateD
HeavyE
CongestedF
Severe

SR 16 (SPALDING COUNTY) - EVENING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

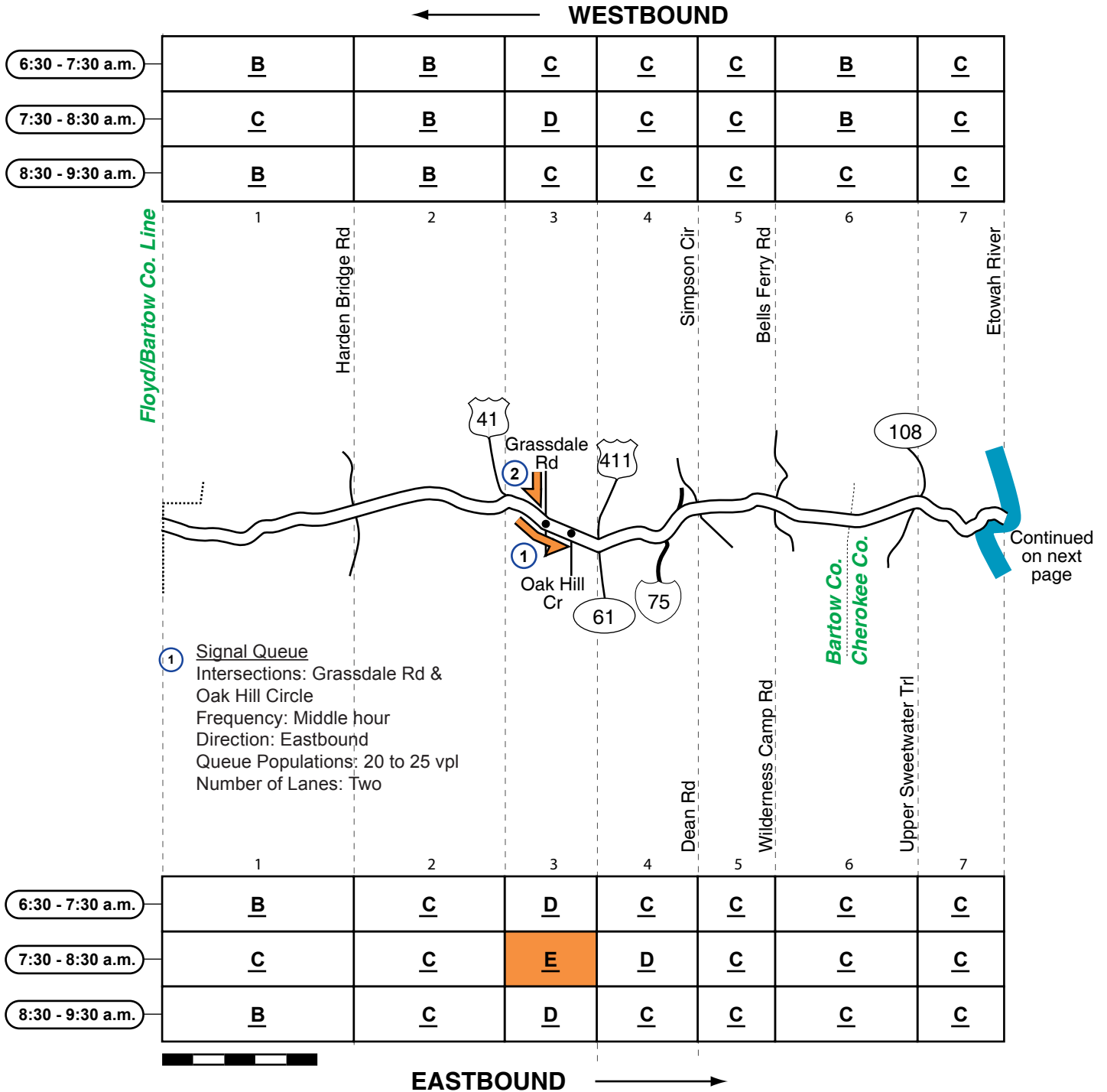
Heavy

E

Congested

F

Severe

SR 20 (BARTOW/CHEROKEE & FORSYTH COUNTIES) - MORNING

- ② Congested Cross Road
Road Name: Grassdale Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

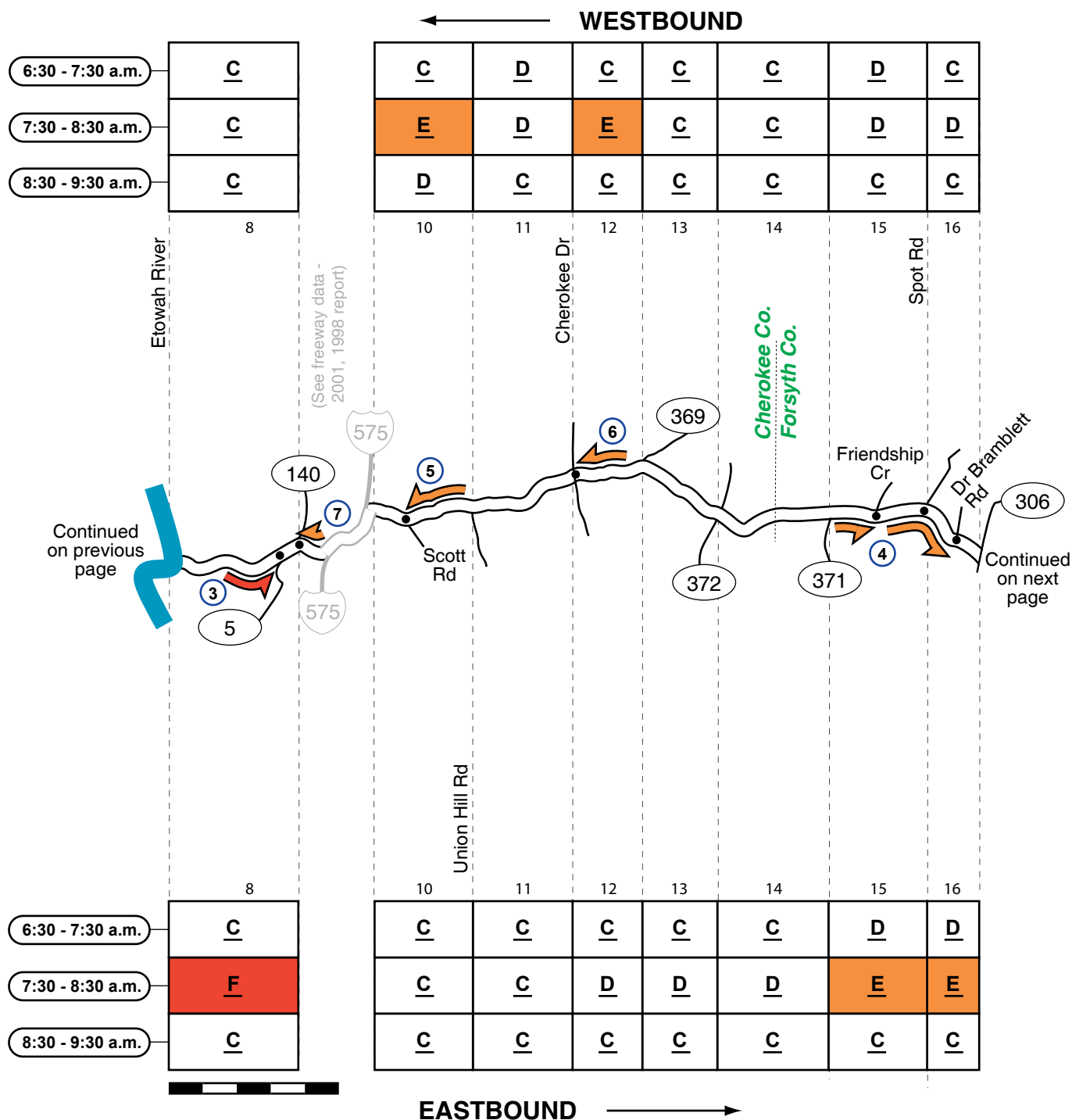
- ③ Signal Queue
Intersection: SR 5 / Marietta Hwy
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One
Note: High percentage of school buses in queue; school located just west of SR 5.

- ④ Signal Queues
Intersection: Friendship Circle
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- Intersection: Spot Rd
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 20 (BARTOW/CHEROKEE & FORSYTH COUNTIES) - MORNING



- ④ Intersection: Dr Bramblett Rd
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

- ⑤ Signal Queue
Intersection: Scott Rd
Frequency: Most observations between 7:00 and 9:00 a.m.
Direction: Westbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One

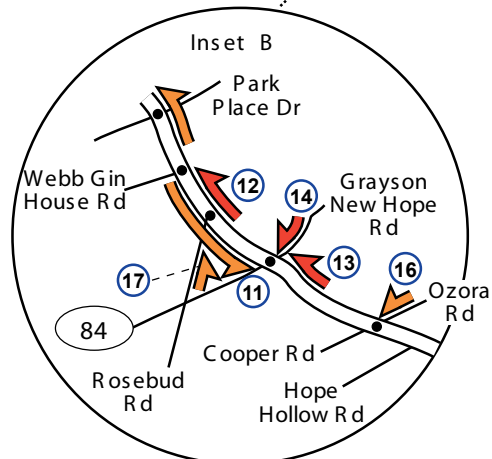
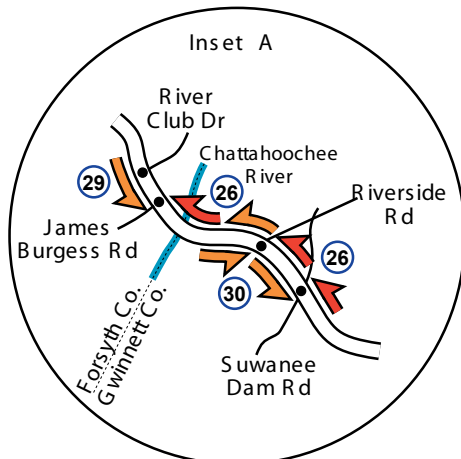
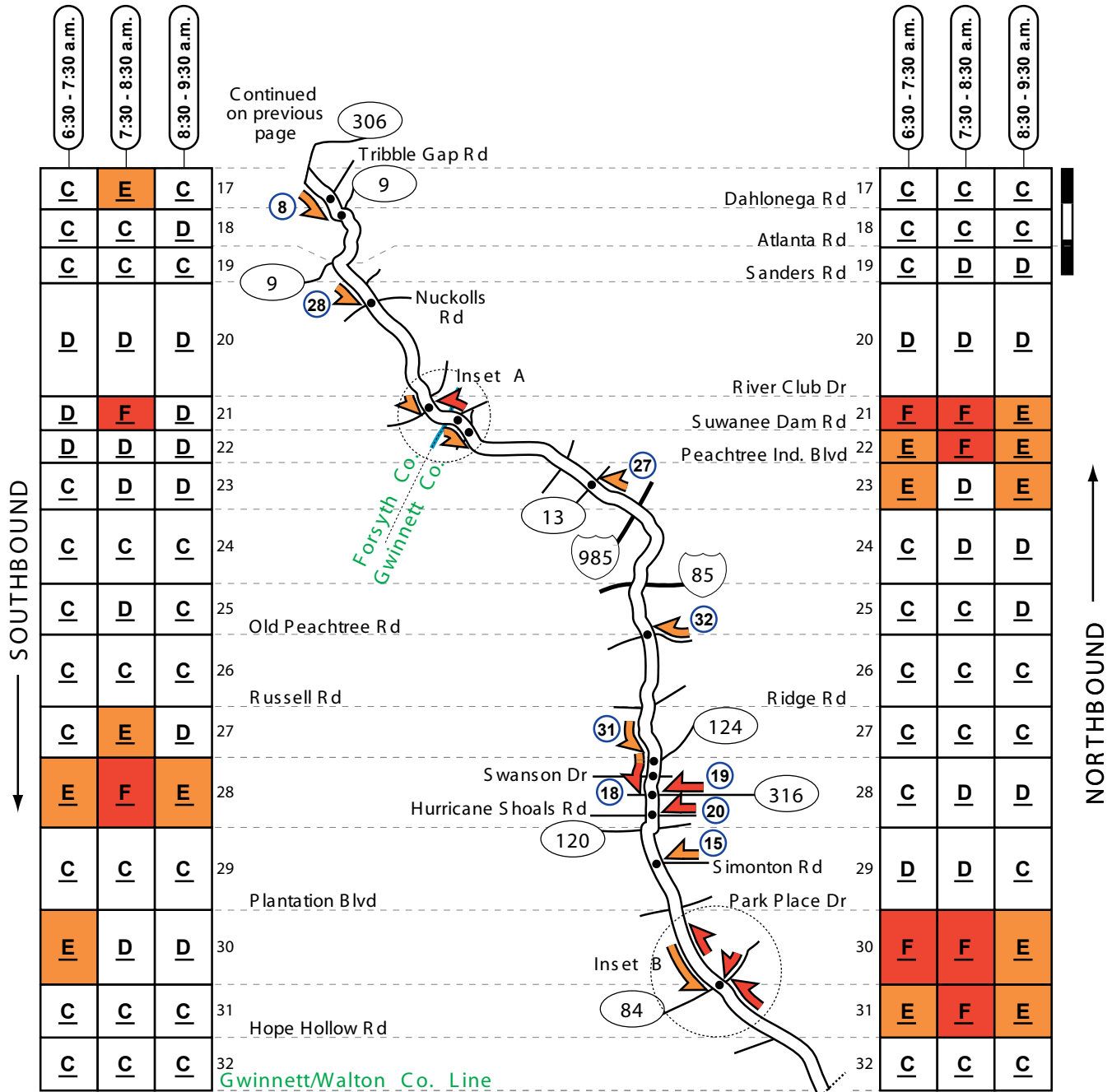
- ⑥ Signal Queue
Intersection: Cherokee Dr
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

- ⑦ Congested Cross Road
Road Name: I-575 Connector (Hickory Flat Hwy)
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 20 (GWINNETT & FORSYTH COUNTIES) - MORNING



Traffic Quality Rating

A

B

C

D

E

F

Very Light

Light

Moderate

Heavy

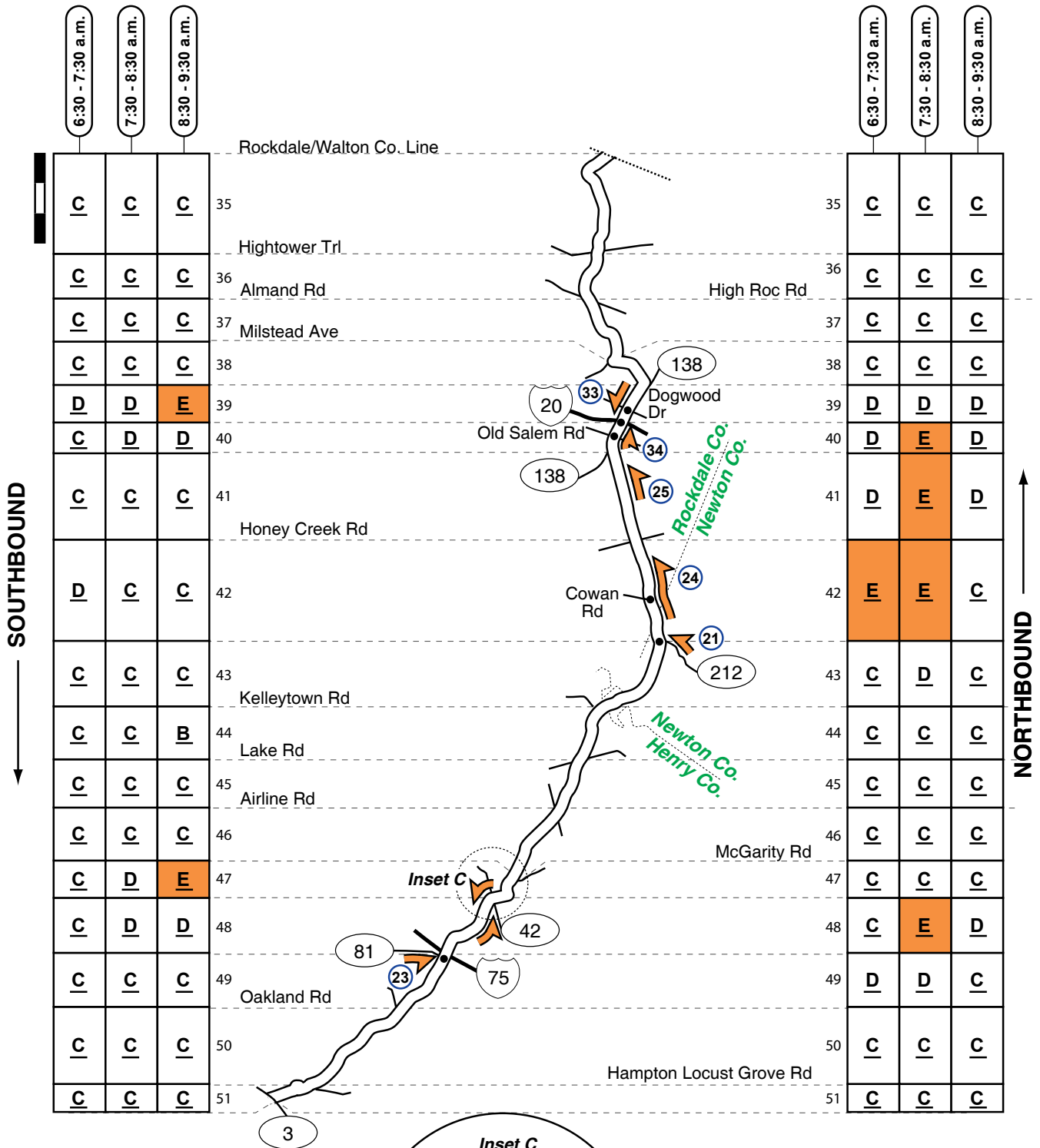
Congested

Severe

SR 20 (GWINNETT & FORSYTH COUNTIES) - MORNING

- 8 Signal Queue
Intersection: Trebble Gap Rd & SR 9
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- 11 Platoons / Signal Queues
Intersections: Rosebud Rd & SR 84
Frequency: Intermittent
Direction: Southbound
Queue / Platoon Populations: 20 to 40 vpl
Number of Lanes: One
- 12 Signal Queue
Intersection: Webb Gin House Rd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 140 vpl
Number of Lanes: One
Note: In some cases, northbound congestion at the signal at Webb Gin House Rd extended back through the upstream signal at Rosebud Rd (a distance of approximately one mile).
- 13 Signal Queue
Intersection: SR 84
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 100 vpl
Number of Lanes: One
Note: Construction on SR 20 at and north of the intersection at SR 84; no lane closures were found.
- 14 Congested Cross Road
Road Name: Grayson New Hope Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- 15 Congested Cross Road
Road Name: Simonton Rd
Frequency: Most observations before 8:00 a.m.
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- 16 Congested Cross Road
Road Name: Cooper Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- 17 Congested Cross Road
Road Name: Rosebud Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- 18 Signal Queues
Intersection: SR 316
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- Intersection: Swanson Dr
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- 19 Congested Cross Road
Road Name: SR 316
Frequency: Most observations
Direction: Westbound
Queue Population: 20 to 75 vpl
Number of Lanes: Two
- 20 Congested Cross Road
Road Name: Hurricane Shoals Rd
Frequency: Middle hour
Direction: Westbound
Queue Population: 20 to 60 vpl
Number of Lanes: One
- 26 Signal Queues
Intersection: James Burgess Rd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 75 vpl
Number of Lanes: One
Note: In some cases, northbound congestion approaching James Burgess Rd extended across the Chattahoochee River and back through the upstream signals at Riverside Rd and Suwanee Dam Rd.
- Intersection: Riverside Rd
Frequency: Most observations before 8:30 a.m.
Direction: Northbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
- Intersection: Suwanee Dam Rd
Frequency: Most observations before 8:30 a.m.
Direction: Northbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One
- 27 Signal Queue
Intersection: SR 13
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- 28 Signal Queue
Intersection: Nuckolls Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- 29 Signal Queue
Intersection: James Burgess Rd
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- 30 Signal Queues
Intersections: Riverside Rd & Suwanee Dam Rd
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- 31 Signal Queue
Intersection: SR 124
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
Note: In some cases, downstream congestion at Swanson Dr extended back through the signal at SR 124.
- 32 Congested Cross Rd
Road Name: Old Peachtree Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One

SR 20 (ROCKDALE/NEWTON & HENRY COUNTIES) - MORNING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

F

Severe

SR 20 (ROCKDALE/NEWTON & HENRY COUNTIES) - MORNING

9 Queue (Railroad Crossing)

Intersection: Vicinity of Bridges Rd
Frequency: Intermittent
Direction: Northbound & Southbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One

33 Signal Queues

Intersections: I-20 & Dogwood Dr
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

10 Signal Queue

Intersection: SR 81
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 45 vpl
Number of Lanes: One

34 Signal Queues

Intersections: I-20 & Old Salem Rd
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

21 Congested Cross Rd

Road Name: SR 212
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

22 Congested Cross Road

Road Name: SR 81 / Cedar St
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 90 vpl
Number of Lanes: One

23 Congested Cross Road

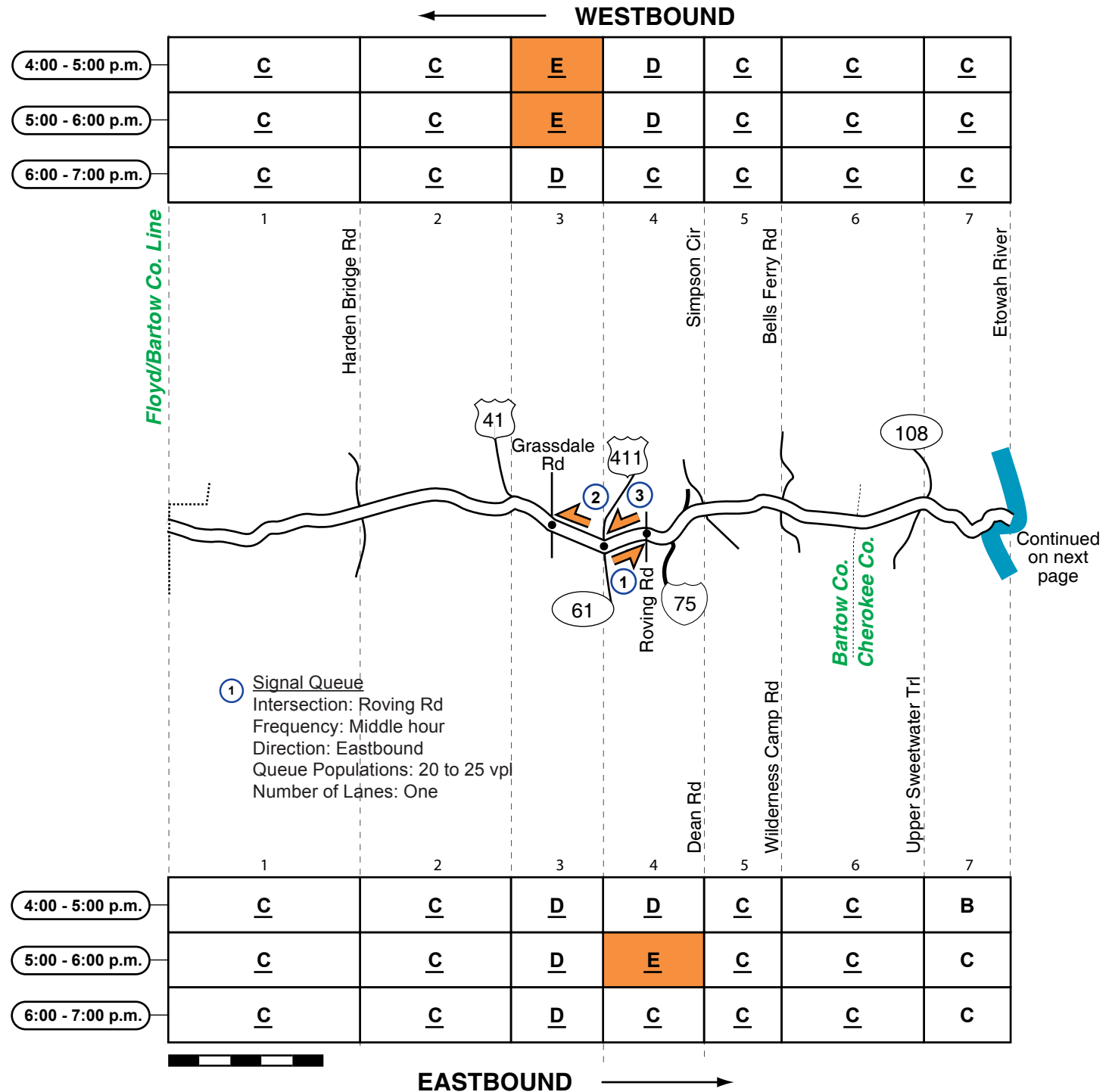
Road Name: SR 81
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
Note: Queue in dedicated left-turn lane

24 Construction Zone

Intersection: Cowan Rd
Frequency: Most observations
Direction: Northbound
Platoon Populations: 30 to 100 vpl
Number of Lanes: One
Note: In most cases, large platoons resembling a "funeral procession" were found traveling northbound approaching and through the construction zone in the vicinity of Cowan Rd.

25 Platoons

Location: Between Honey Creek Rd & SR 138
Frequency: Intermittent
Direction: Northbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One

SR 20 (BARTOW/CHEROKEE & FORSYTH COUNTIES) - EVENING

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

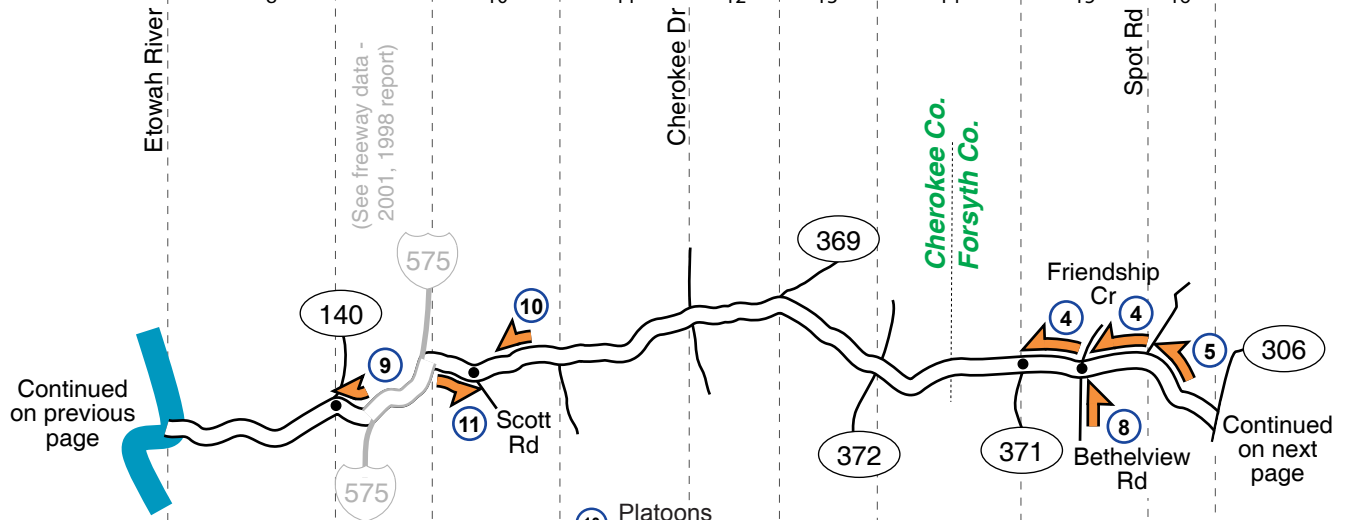
F

Severe

SR 20 (BARTOW/CHEROKEE & FORSYTH COUNTIES) - EVENING

WESTBOUND

4:00 - 5:00 p.m.	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>E</u>	<u>E</u>
5:00 - 6:00 p.m.	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>D</u>	<u>E</u>	<u>E</u>
6:00 - 7:00 p.m.	<u>C</u>	<u>E</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>
	8	10	11	12	13	14	15	16



- 11 Signal Queue
 Intersection: Scott Rd
 Frequency: Middle hour
 Direction: Eastbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

- 10 Platoons
 Location: Between Union Hill Rd & I-575
 Frequency: Intermittently after 6:00 p.m.
 Direction: Westbound
 Platoon Populations: 25 to 30 vpl
 Number of Lanes: One

4:00 - 5:00 p.m.	<u>C</u>	<u>D</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>C</u>
5:00 - 6:00 p.m.	<u>D</u>	<u>E</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>
6:00 - 7:00 p.m.	<u>C</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>
	8	10	11	12	13	14	15	16

EASTBOUND

- 5 Platoons
 Location: Between SR 306 & Spot Rd
 Frequency: Most observations before 6:00 p.m.
 Direction: Westbound
 Platoon Populations: 25 to 30 vpl
 Number of Lanes: One
- 8 Congested Cross Road
 Road Name: Bethelview Rd
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One
- 9 Congested Cross Road
 Road Name: I-575 Connector / Hickory Flat Hwy
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

Traffic Quality Rating

A
Very Light

B
Light

C
Moderate

D
Heavy

E
Congested

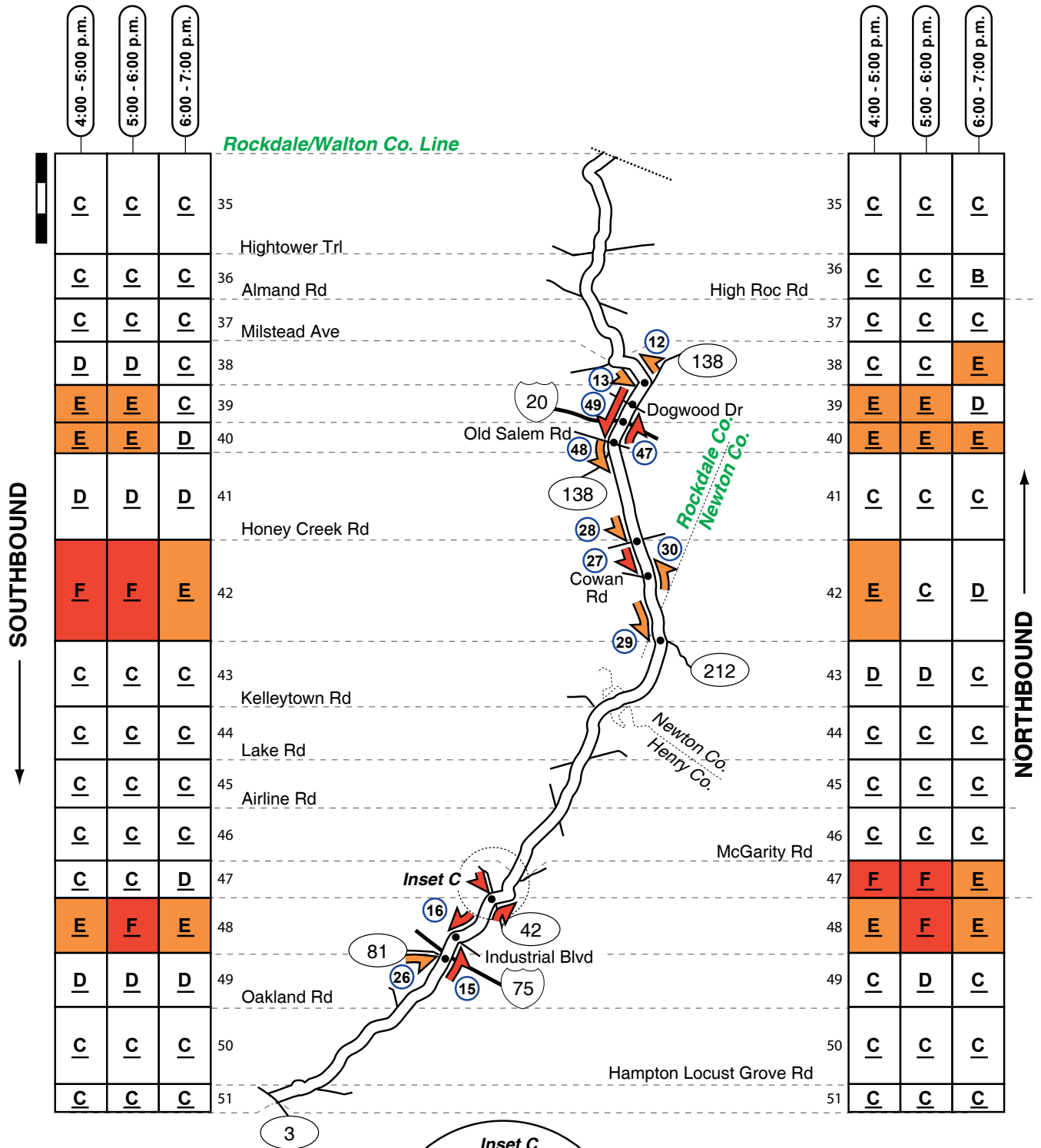
F
Severe



SR 20 (GWINNETT & FORSYTH COUNTIES) - EVENING

- 6** Signal Queue
Intersection: SR 306
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 70 vpl
Number of Lanes: One
- 7** Signal Queues
Intersections: Trebble Gap Rd & SR 9
Frequency: Most observations before 6:00 p.m.
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
Note: In some cases, congestion extended back through an upstream signal.
- 17** Platoons
Location: Between SR 84 & Plantation Blvd
Frequency: Intermittent
Direction: Northbound
Platoon Populations: 25 to 40 vpl
Number of Lanes: One
- 18** Signal Queue
Intersection: SR 84
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- 19** Signal Queues
Intersections: Sugarloaf Pkwy, Webb Gin House Rd and Rosebud Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 120 vpl
Number of Lanes: One
Note: In some cases, a mostly continuous queue extended from the signal at Rosebud Rd back through the signal at Park Place Dr (a distance of approximately two miles). Contributing to the congestion was a signal located just south of Rosebud Rd (not listed on street maps; appears to be shopping center).
- 20** Signal Queue
Intersection: Park Place Dr
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- 21** Platoons / Queues
Location: Between SR 84 & Hope Hollow Rd; vicinity of signal at Cooper Rd
Frequency: Most observations between 4:30 and 6:30 p.m.
Direction: Southbound
Platoon / Queue Populations: 25 to 40 vpl
Number of Lanes: One
- 22** Congested Cross Road
Road Name: Cooper Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- 23** Signal Queue
Intersection: SR 316
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two
- 24** Congested Cross Road
Road Name: SR 316
Frequency: Most observations
Direction: Westbound
Queue Population: 20 to 50 vpl
Number of Lanes: Two
- 25** Signal Queue
Intersection: SR 316
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 80 vpl
Number of Lanes: Two
Note: Queue backed through upstream signals at Swanson Dr & SR 124 (Peak Period).
- 31** Platoons
Location: Vicinity of the signals at SR 400
Frequency: Early in the survey period (intermittent)
Direction: Northbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One
- 32** Signal Queues
Intersections: Sanders Rd, Nuckolls Rd & Samples Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One
- 33** Platoons
Location: Between Peachtree Industrial Blvd & Suwanee Dam Rd
Frequency: Intermittent
Direction: Northbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One
- 34** Signal Queues
Intersections: SR 13 & Lee St
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- 35** Signal Queue
Intersection: SR 324
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- 37** Signal Queue
Intersection: River Club Dr
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 120 vpl
Number of Lanes: One
- 38** Signal Queue
Intersection: James Burgess Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One
- 39** Signal Queue
Intersection: Suwanee Dam Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
- 40** Signal Queue
Intersection: Lee St
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 100 vpl
Number of Lanes: Two
- 41** Signal Queue
Intersection: Horizon Pkwy
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- 42** Signal Queue
Intersection: Rock Springs Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- 43** Congested Cross Road
Road Name: Suwanee Dam Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- 44** Congested Cross Road
Road Name: Old Peachtree Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- 45** Congested Cross Road
Road Name: Russell Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- 46** Signal Queue
Intersection: Buford Dam Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- 50** Congested Cross Road
Intersection: SR 84
Frequency: Most observations after 4:30 p.m.
Direction: Northbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two

SR 20 (ROCKDALE/NEWTON & HENRY COUNTIES) - EVENING



Traffic Quality Legend

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 20 (ROCKDALE/NEWTON & HENRY COUNTIES) - EVENING

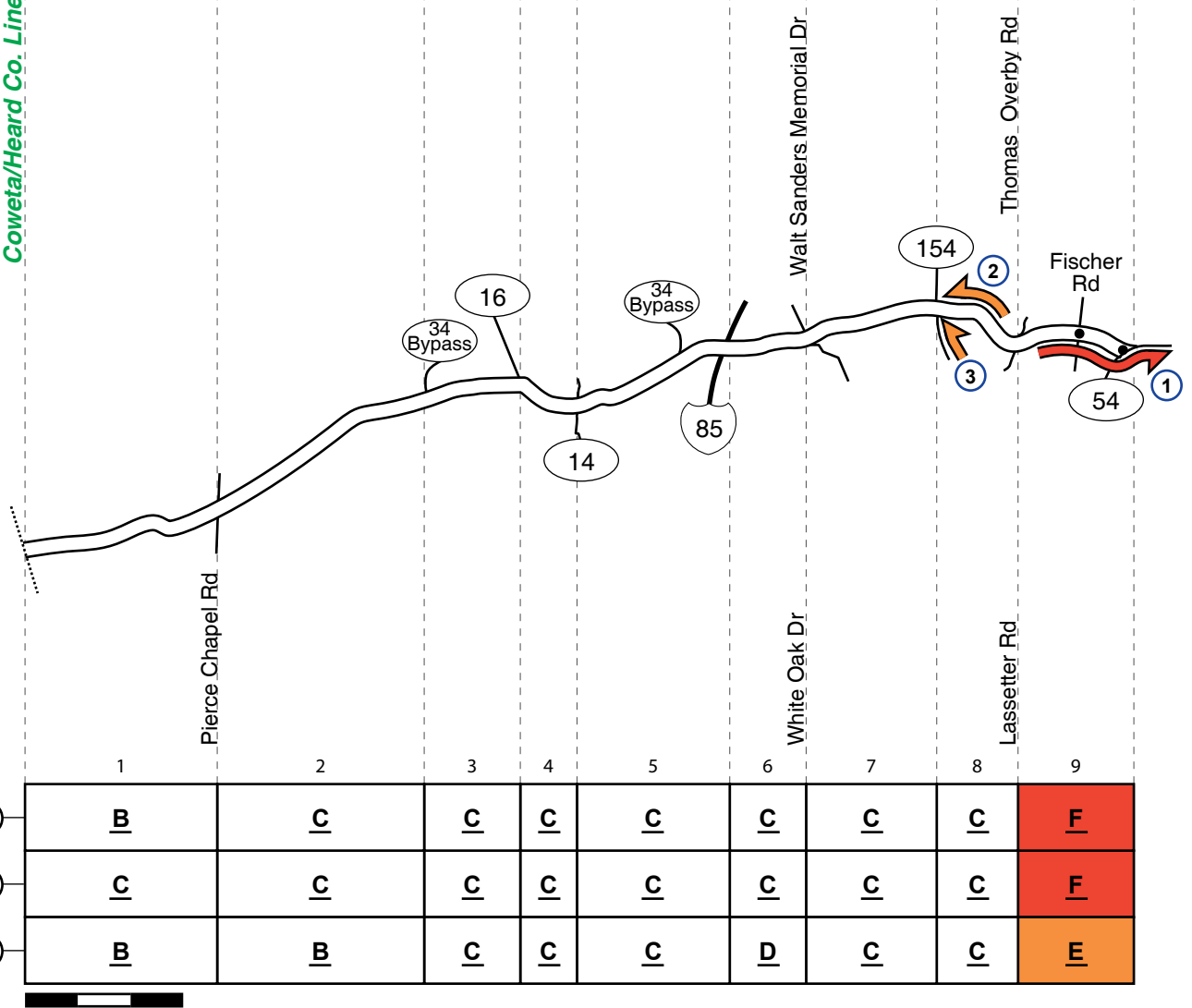
- ⑫ Platoons
Location: Between SR 138 & Milstead Ave
Frequency: After 6:00 p.m. (intermittent)
Direction: Northbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One
- ⑬ Signal Queue
Intersection: SR 138
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑭ Signal Queues
Intersections: SR 81/Cedar St, SR 155 & SR 42
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 70 vpl
Number of Lanes: One
Note: In some cases, eastbound congestion on SR 20 at SR 81 backed through the upstream signals at SR 155 and SR 42.
- ⑮ Signal Queues
Intersections: Industrial Blvd & I-75
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One
Note: In some cases, northbound congestion on SR 20 at Industrial Blvd backed through the upstream signals at I-75.
- ⑯ Signal Queue
Intersection: Industrial Blvd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 100 vpl
Number of Lanes: One
Note: At its maximum observed extent, the queue extended back to the vicinity of Phillips Dr (a distance of approximately one mile).
- ⑰ Congested Cross Road
Intersection: SR 81
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
Note: Queue in dedicated left-turn lane
- ⑱ Construction Zone
Intersection: Cowan Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 30 to 100 vpl
Number of Lanes: One
Note: In some cases, congestion approaching the construction zone in the vicinity of Cowan Rd extended back to the vicinity of Honey Creek Rd (a distance of approximately one mile).
- ⑲ Signal Queue
Intersection: Honey Creek Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑳ Signal Queue
Intersection: SR 212
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ㉑ Platoons
Location: Between SR 212 & Honey Creek Rd
Frequency: Early in the survey period
Direction: Northbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One
- ㉒ Signal Queues
Intersections: Old Salem Rd, I-20 & Dogwood Dr
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ㉓ Platoons
Location: Between I-20 & SR 138
Frequency: Most observations before 6:00 p.m.
Direction: Southbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Three
- ㉔ Signal Queues
Intersections: Dogwood Dr, I-20 & Old Salem Rd
Frequency: Most observations before 6:00 p.m.
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ㉕ Congested Cross Road
Road Name: SR 42
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

SR 34 (COWETA COUNTY) - MORNING

← WESTBOUND

6:30 - 7:30 a.m.	<u>B</u>	<u>B</u>	<u>B</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>
7:30 - 8:30 a.m.	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>E</u>	<u>D</u>
8:30 - 9:30 a.m.	<u>B</u>	<u>B</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>C</u>
	1	2	3	4	5	6	7	8	9

Coweta/Heard Co. Line



→ EASTBOUND

Traffic Quality Legend

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 34 (COWETA COUNTY) - MORNING

① Signal Queue

Intersection: SR 54

Frequency: Most observations

Direction: Eastbound

Queue Populations: 20 to 85 vpl

Number of Lanes: One

Note: In some cases, downstream congestion on SR 54 backed through the signal at SR 34/SR 54. The head of the queue downstream was found at the four closely spaced intersections at Line Creek Dr, Planterra Way, Huddleston Rd & SR 74. At its maximum observed extent, the queue extended for a distance of approximately two miles.

② Platoons

Location: Between Lassetter Rd and SR 154

Frequency: Middle hour

Direction: Westbound

Platoon Populations: 25 to 50 vpl

Number of Lanes: One

③ Congested Cross Road

Road Name: SR 154

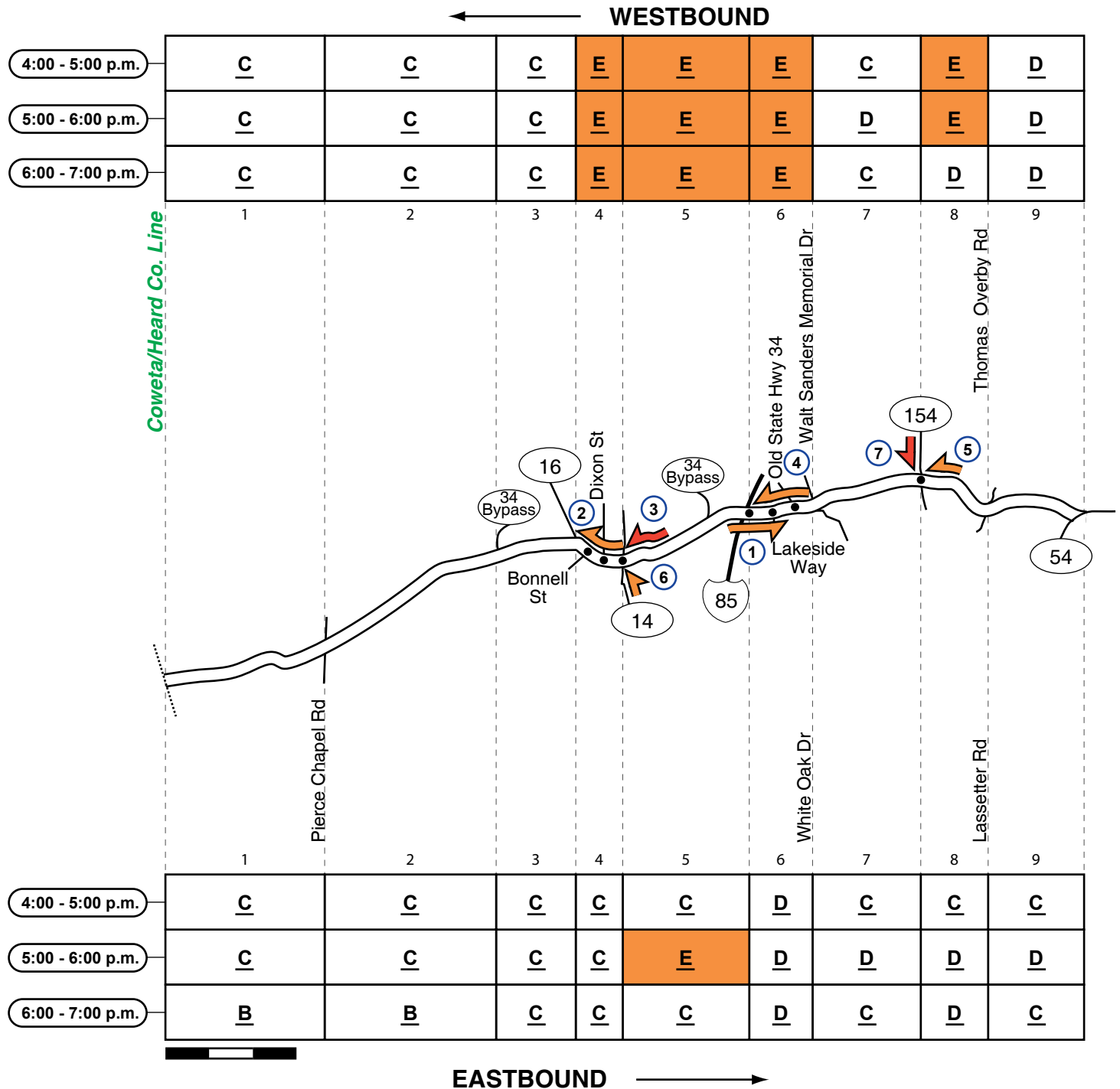
Frequency: Intermittent

Direction: Northbound

Queue Populations: 20 to 25 vpl

Number of Lanes: One

SR 34 (COWETA COUNTY) - EVENING

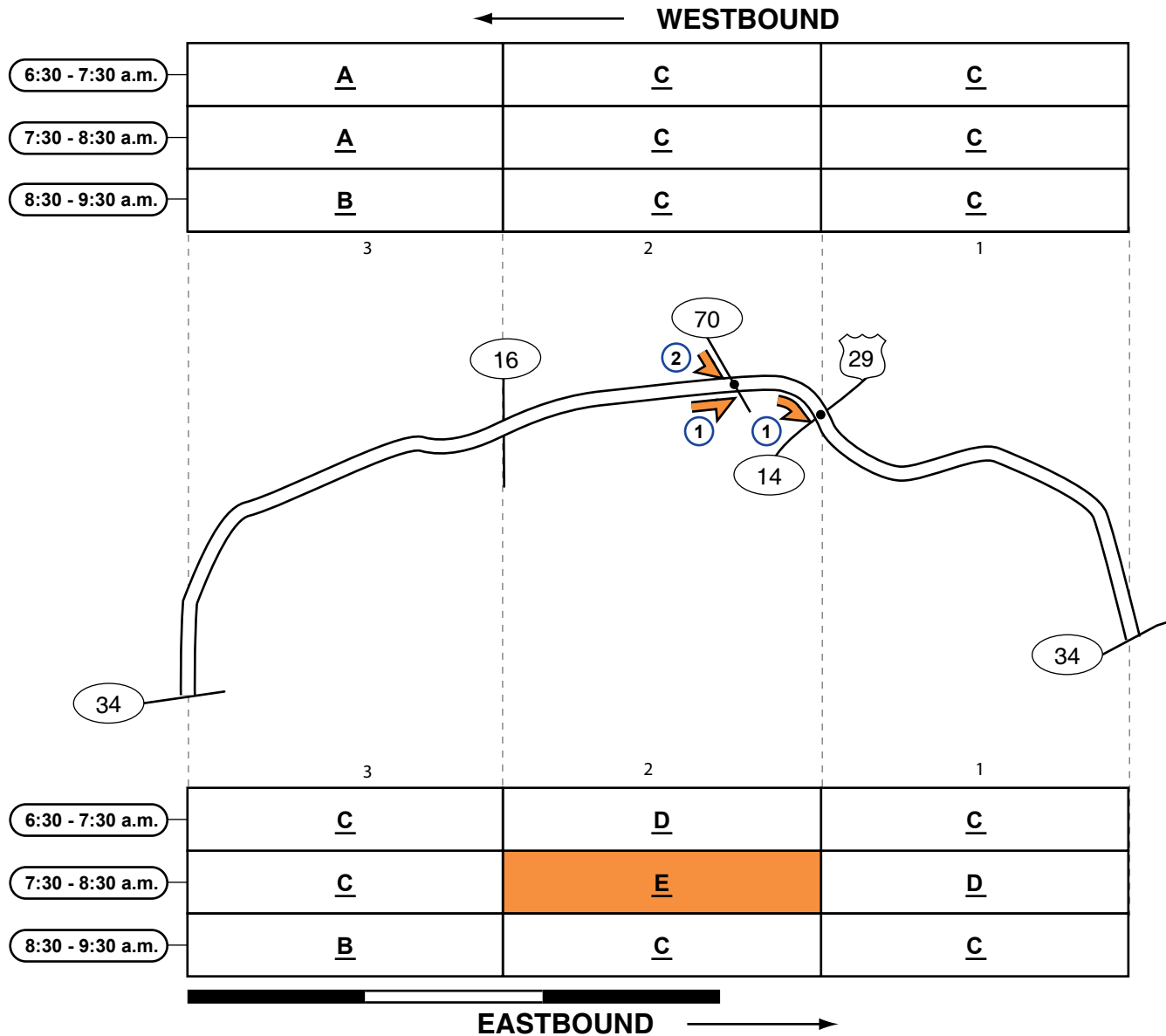


Traffic Quality Rating

A
Very LightB
LightC
ModerateD
HeavyE
CongestedF
Severe

SR 34 (COWETA COUNTY) - EVENING

- ① Signal Queues
Intersections: I-85 & Lakeside Way
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 25 to 30 vpl
Number of Lanes: Two
- ② Platoons
Location: Vicinity of the signals at Dixon St & Bonnell St
Frequency: Most observations
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One
- ③ Signal Queue
Intersection: SR 14
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ④ Platoons
Location: Vicinity of the signals at Old State Hwy 34,
Lakeside Way & I-85
Frequency: Most observations
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ⑤ Platoons
Location: Between Lassetter Rd & SR 154
Frequency: Intermittent
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One
- ⑥ Congested Cross Road
Road Name: SR 14
Frequency: Early in the survey period
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑦ Congested Cross Road
Road Name: SR 154
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of lanes: One

SR 34 BYPASS (COWETA COUNTY) - MORNING

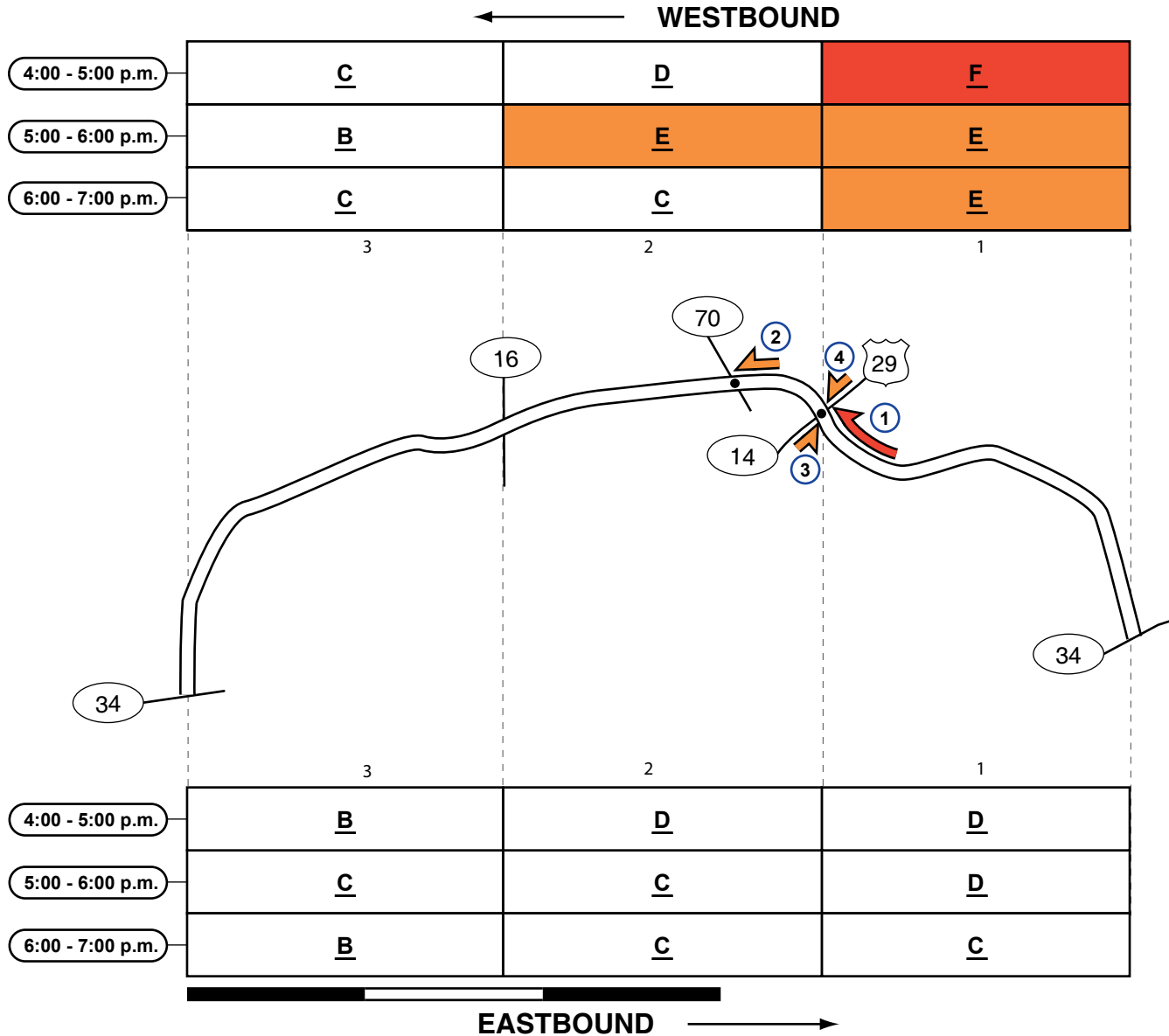
① Signal Queues
 Intersections: SR 70 & SR 14
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

② Congested Cross Road
 Road Name: SR 70
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20-25 vpl
 Number of Lanes: One

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 34 BYPASS (COWETA COUNTY) - EVENING



① Signal Queue
 Intersection: SR 14
 Frequency: Most observations
 Direction: Westbound
 Queue Populations: 20 to 80 vpl
 Number of Lanes: One

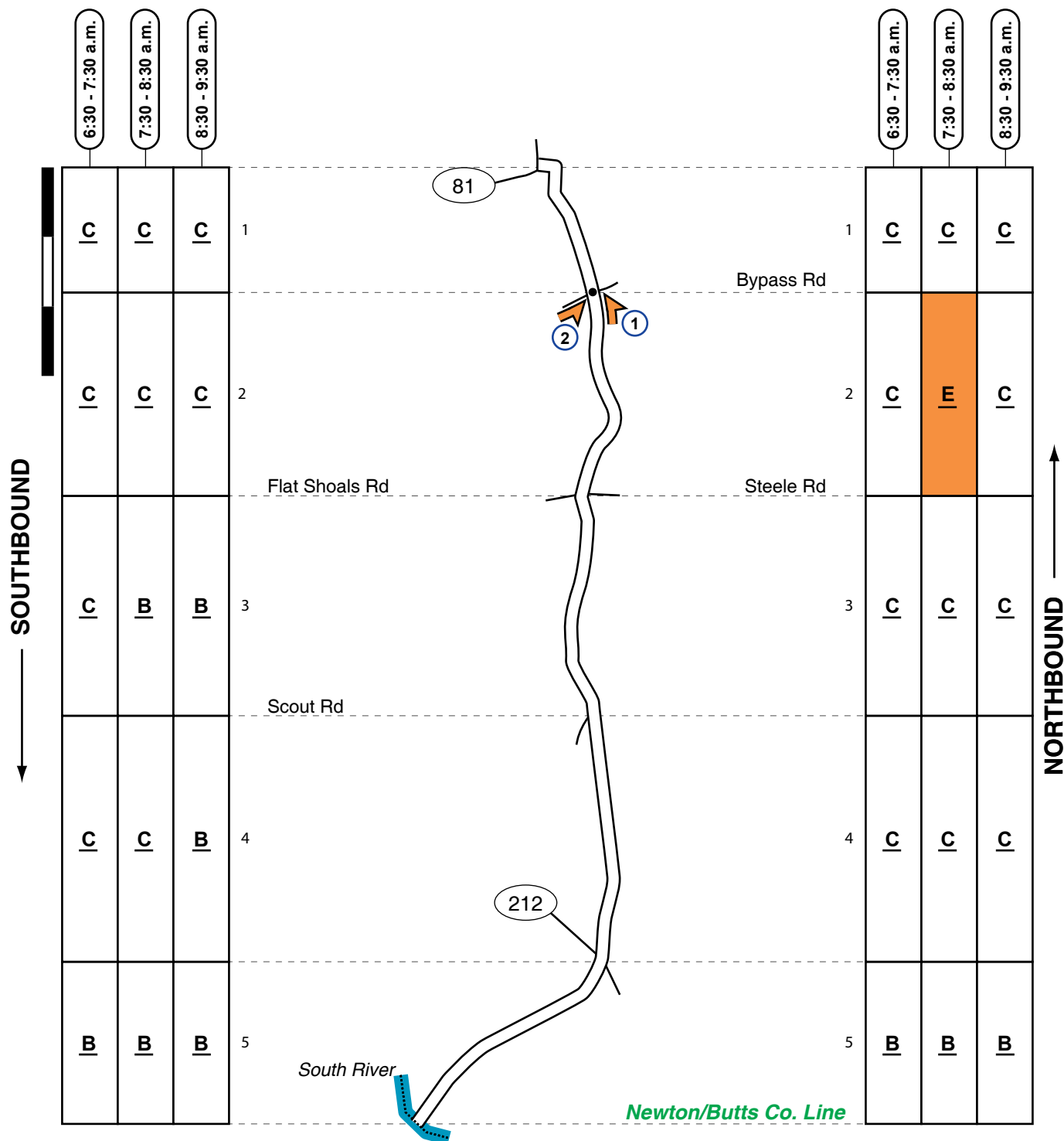
③ Congested Cross Road
 Road Name: SR 14
 Frequency: Early in the survey period
 Direction: Northbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

② Signal Queue
 Intersection: SR 70
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

④ Congested Cross Road
 Road Name: SR 14
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

Traffic Quality Rating	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
	Very Light	Light	Moderate	Heavy	Congested	Severe

SR 36 (NEWTON COUNTY) - MORNING



① **Signal Queue**
 Intersection: Bypass Rd
 Frequency: Intermittent during the middle hour
 Direction: Northbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

② **Congested Cross Road**
 Road Name: Bypass Rd
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

Traffic Quality Rating

A
Very Light

B
Light

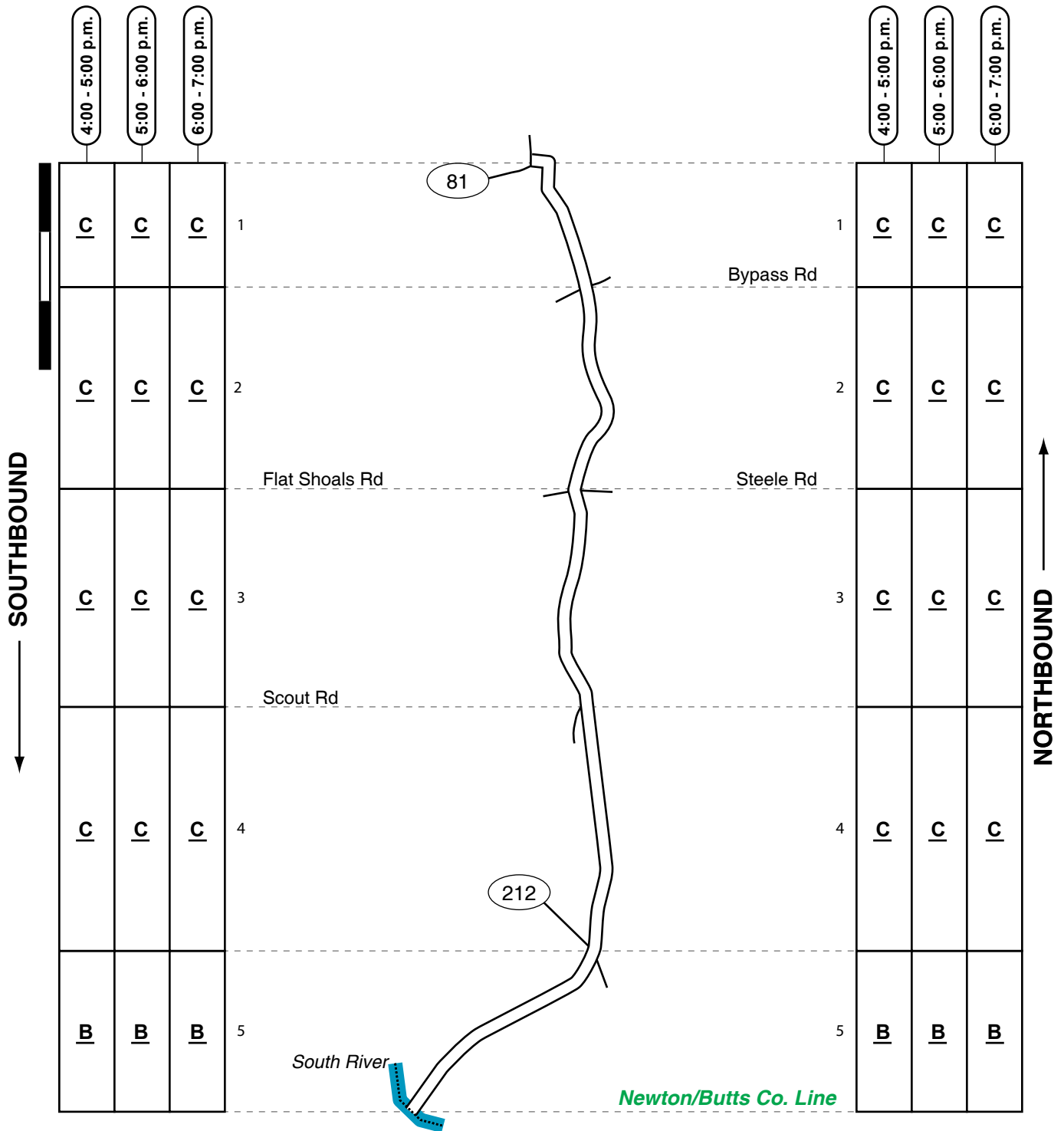
C
Moderate

D
Heavy

E
Congested

F
Severe

SR 36 (NEWTON COUNTY) - EVENING



Traffic Quality Rating

A
Very Light

B
Light

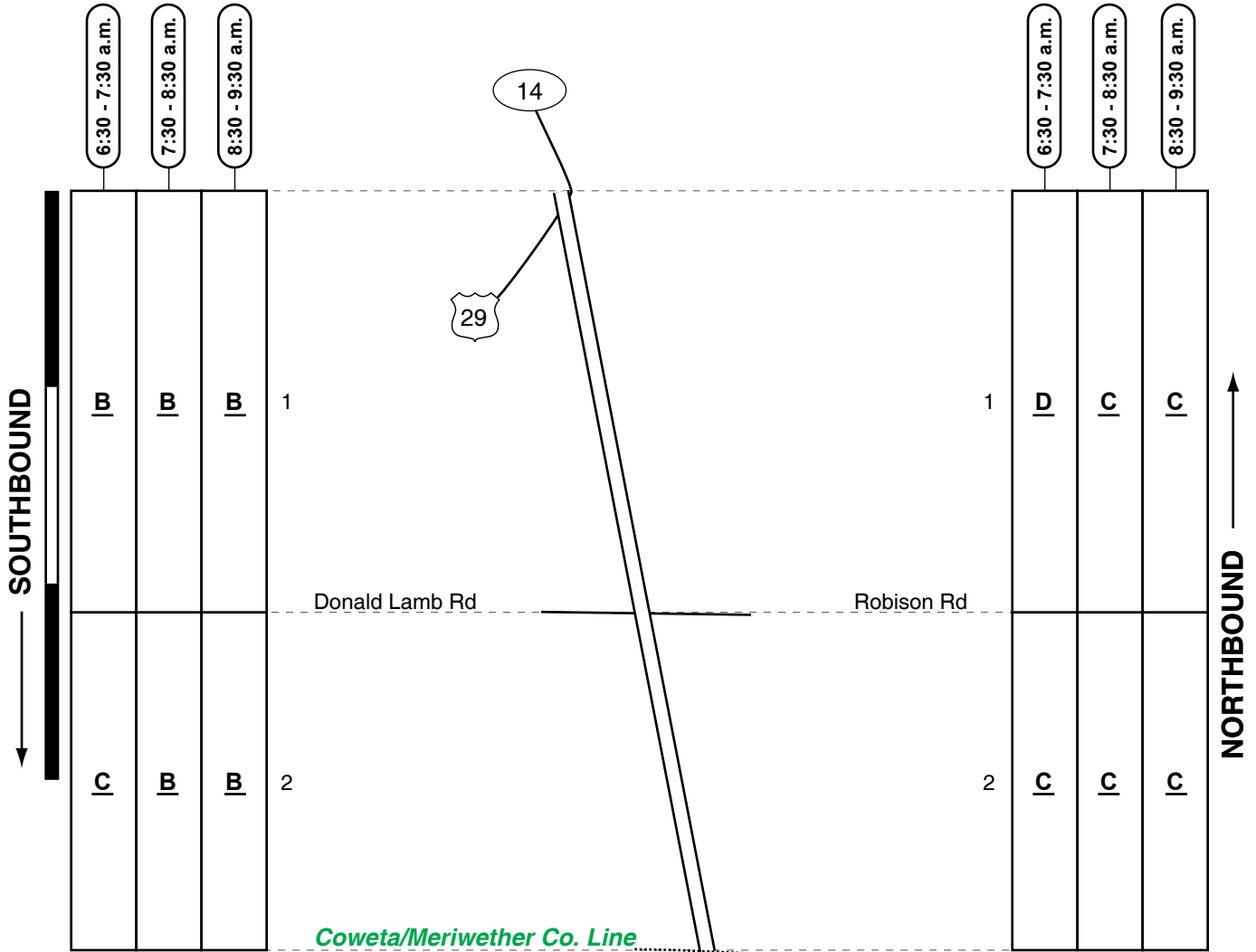
C
Moderate

D
Heavy

E
Congested

F
Severe

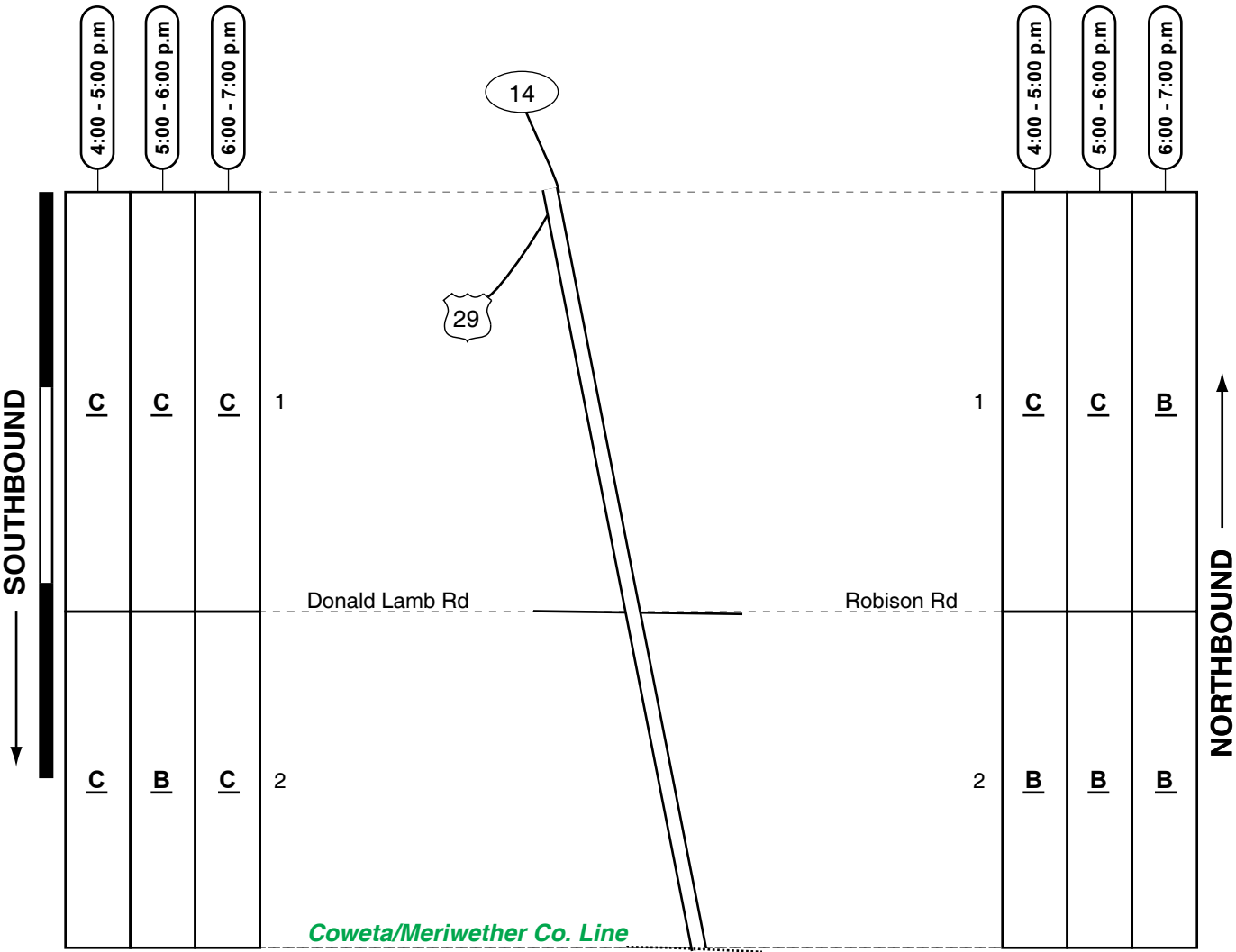
SR 41 (COWETA COUNTY) - MORNING



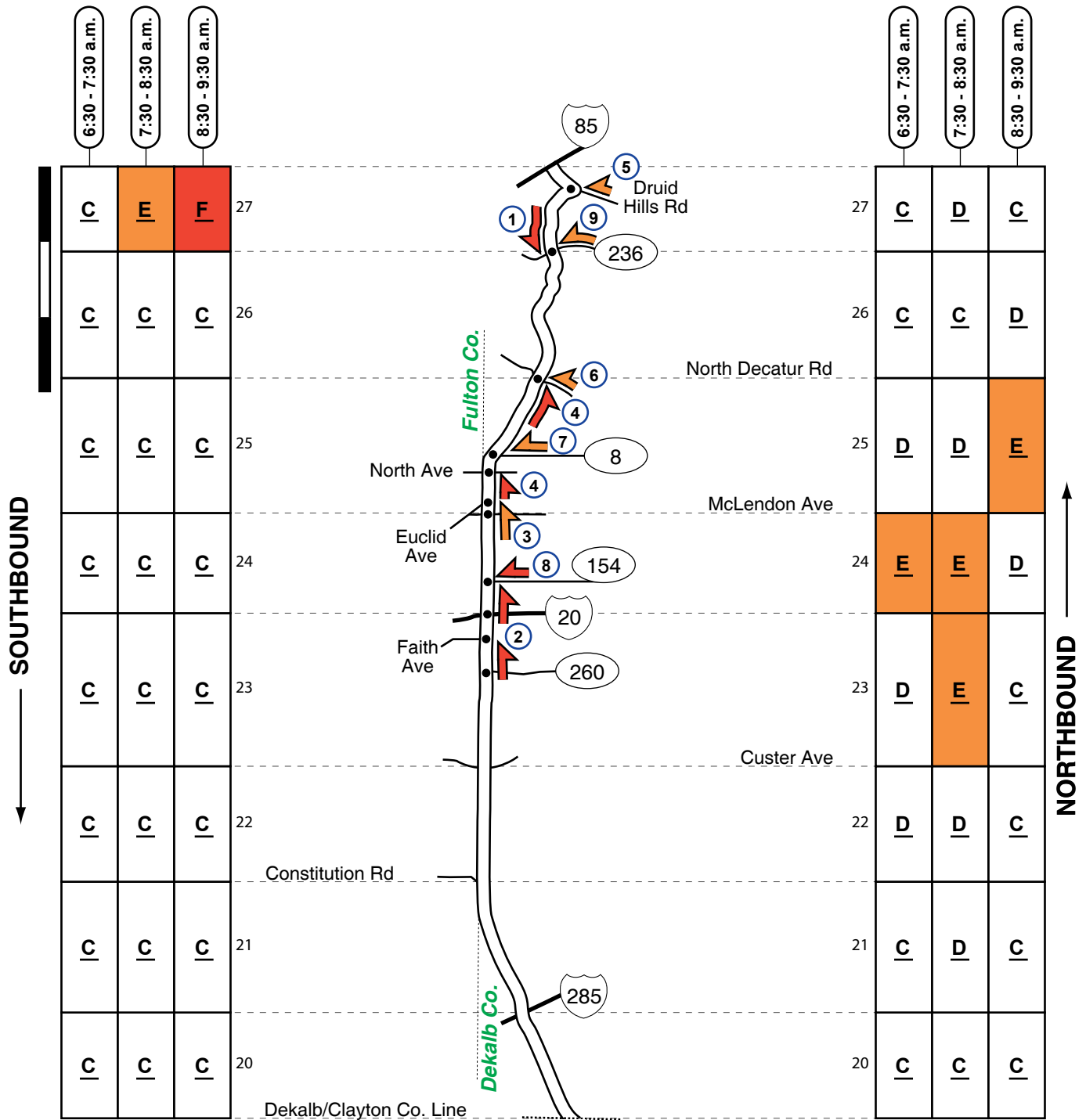
Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 41 (COWETA COUNTY) - EVENING



SR 42 (FULTON & DEKALB COUNTIES) - MORNING



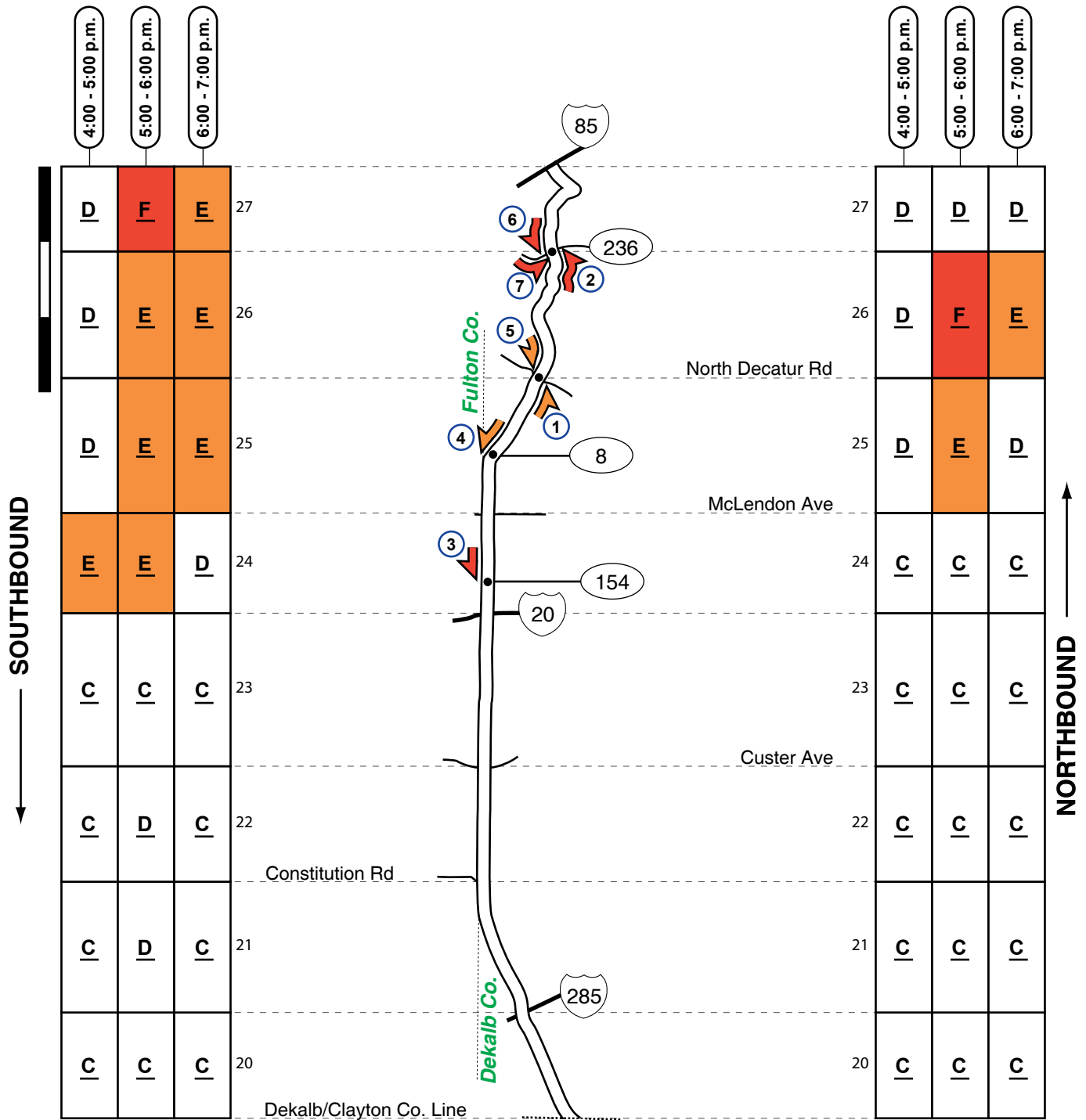
Traffic Quality Rating

A
Very Light**B**
Light**C**
Moderate**D**
Heavy**E**
Congested**F**
Severe

SR 42 (FULTON & DEKALB COUNTIES) - MORNING

- ① Signal Queue
Intersection: SR 236
Frequency: Most observations after 7:30 a.m.
Direction: Southbound
Queue Populations: 20 to 65 vpl
Number of Lanes: One
- ② Signal Queues
Intersections: SR 154, I-20 & Faith Ave
Frequency: Most observations before 8:30 a.m.
Direction: Northbound
Queue Populations: 20 to 70 vpl
Number of Lanes: Two
Note: The intersection at SR 154 was under construction throughout the fall survey period.
- ③ Signal Queues
Intersections: McLendon Ave & Euclid Ave
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 35 vpl
Number of Lanes: Two
- ④ Signal Queues
Intersections: North Ave & North Decatur Rd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 35 vpl
Number of Lanes: Two
- ⑤ Congested Cross Road
Road Name: Druid Hills Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two
- ⑥ Congested Cross Road
Road Name: North Decatur Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑦ Congested Cross Road
Road Name: SR 8
Frequency: Middle hour
Direction: Westbound
Queue Populations: 40 to 80 vpl
Number of Lanes: Two
- ⑧ Congested Cross Road
Road Name: SR 154
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 45 vpl
Number of Lanes: One
Note: The intersection at SR 154 was under construction throughout the fall survey period.
- ⑨ Congested Cross Road
Road Name: SR 236
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One

SR 42 (FULTON & DEKALB COUNTIES) - EVENING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

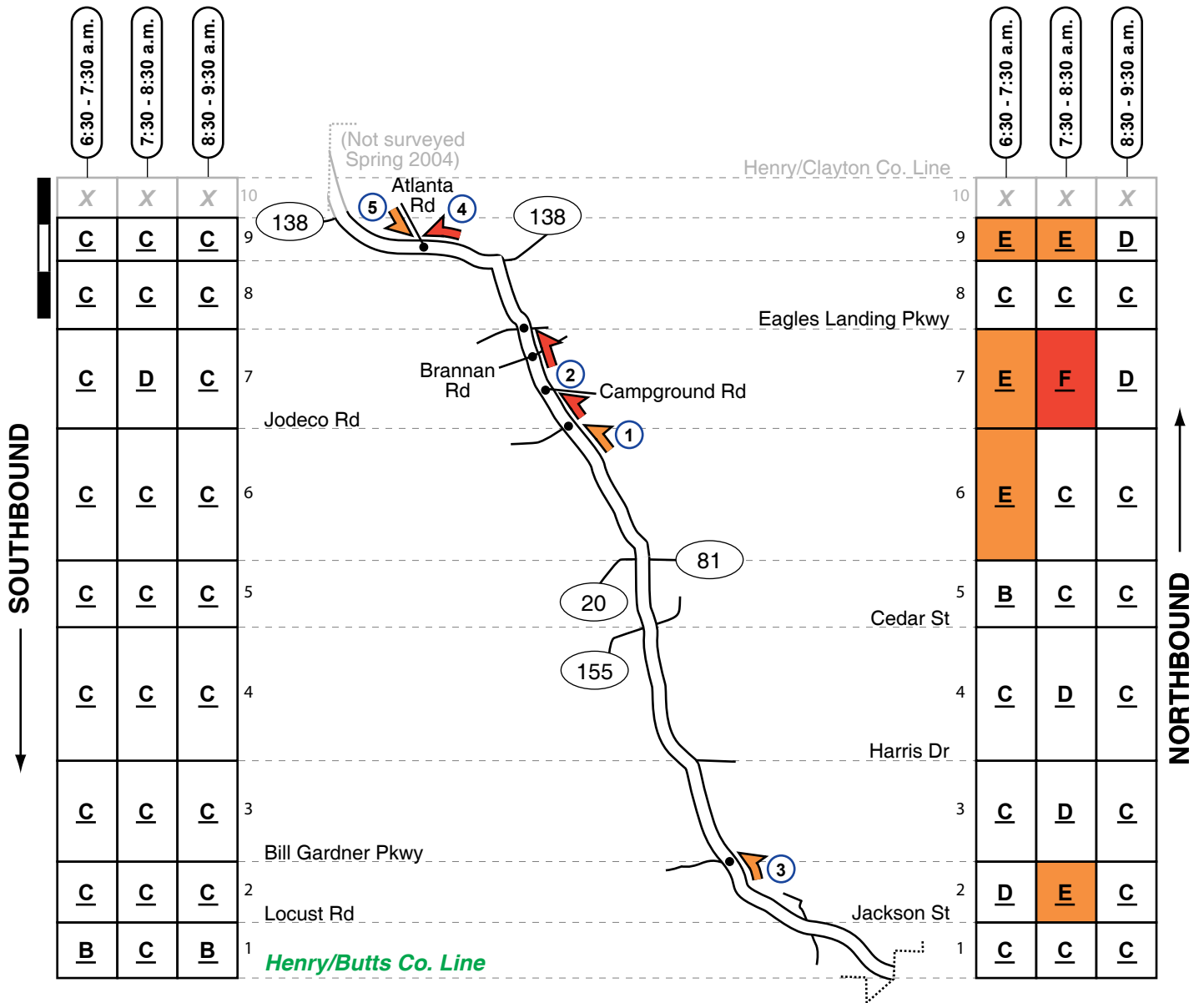
F

Severe

SR 42 (FULTON & DEKALB COUNTIES) - EVENING

- ① Signal Queue
Intersection: North Decatur Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ② Signal Queue
Intersection: SR 236
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One
- ③ Signal Queue
Intersection: SR 154
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: SR 8
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 35 vpl
Number of Lanes: Two
- ⑤ Signal Queue
Intersection: North Decatur Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ⑥ Signal Queue
Intersection: SR 236
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ⑦ Congested Cross Road
Road Name: SR 236
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One

SR 42 (HENRY COUNTY) - MORNING



Traffic Quality Rating

A
Very Light**B**
Light**C**
Moderate**D**
Heavy**E**
Congested**F**
Severe

SR 42 (HENRY COUNTY) - MORNING

① Signal Queue

Intersection: Jodeco Rd

Frequency: Early in survey period

Direction: Northbound

Queue Populations: 20 to 30 vpl

Number of Lanes: One

② Signal Queues

Intersection: Campground Rd

Frequency: Early in survey period

Direction: Northbound

Queue Populations: 20 to 30 vpl

Number of Lanes: One

Intersections: Brannan Rd & Eagles Landing Pkwy

Frequency: Most observations

Direction: Northbound

Queue Populations: 20 to 100 vpl

Number of Lanes: One

Note: In some cases, congestion at Eagles Landing Pkwy extended back through the upstream signal at Brannan Rd. The head of the queue at Eagles Landing Pkwy was typically found in the dedicated left-turn lane.

③ Signal Queue

Intersection: Bill Gardner Pkwy

Frequency: Intermittent

Direction: Northbound

Queue Populations: 20 to 40 vpl

Number of Lanes: One

Note: The head of the queue was found in the dedicated left-turn lane at Bill Gardner Pkwy. Bill Gardner Pkwy connects SR 42 with I-75 (one-half mile connector).

④ Signal Queue

Intersection: Atlanta Rd

Frequency: Most observations

Direction: Northbound

Queue Populations: 20 to 30 vpl

Number of Lanes: Two

⑤ Congested Cross Road

Road Name: Atlanta Rd

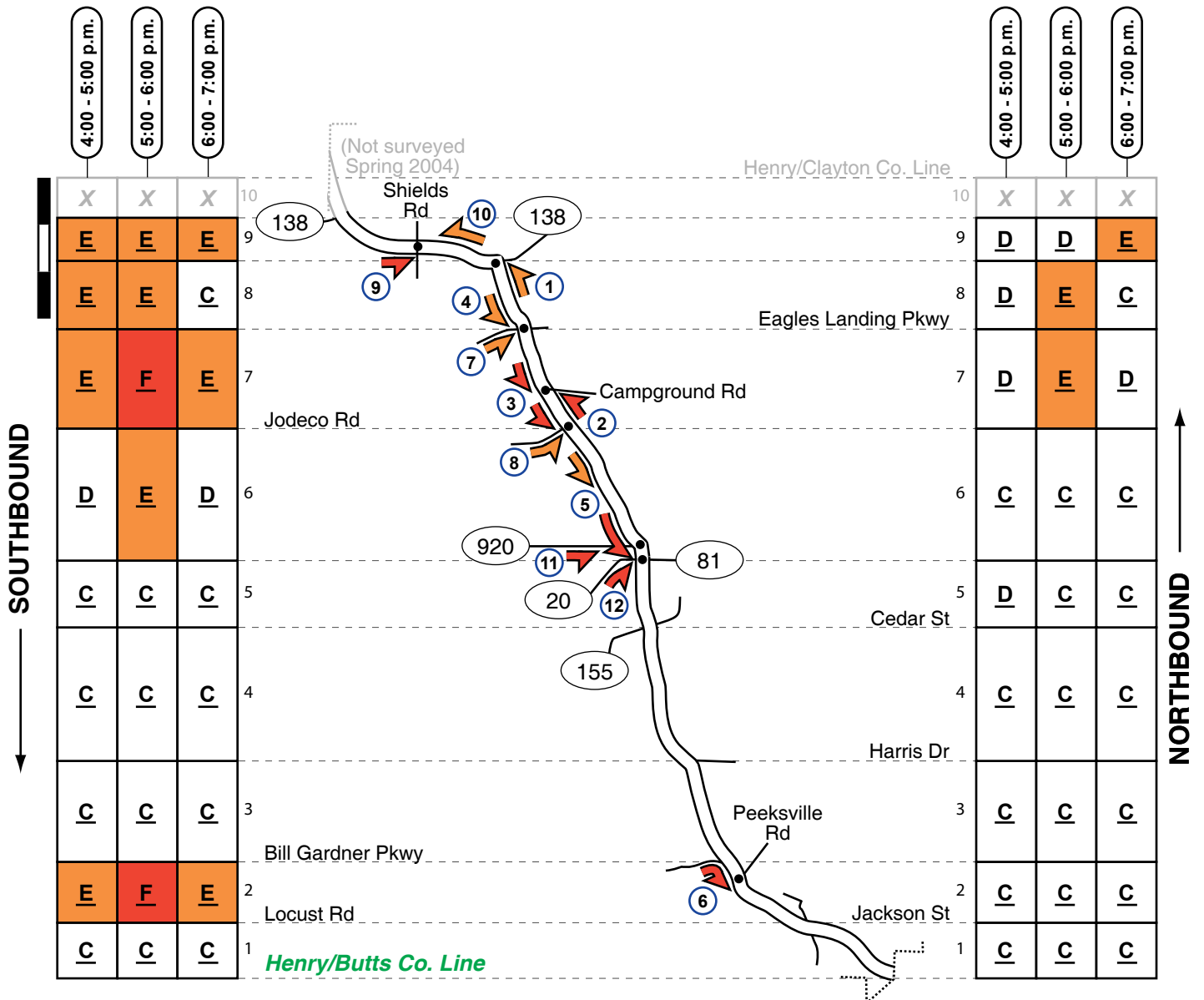
Frequency: Intermittent

Direction: Southbound

Queue Populations: 20 to 25 vpl

Number of Lanes: One

SR 42 (HENRY COUNTY) - EVENING



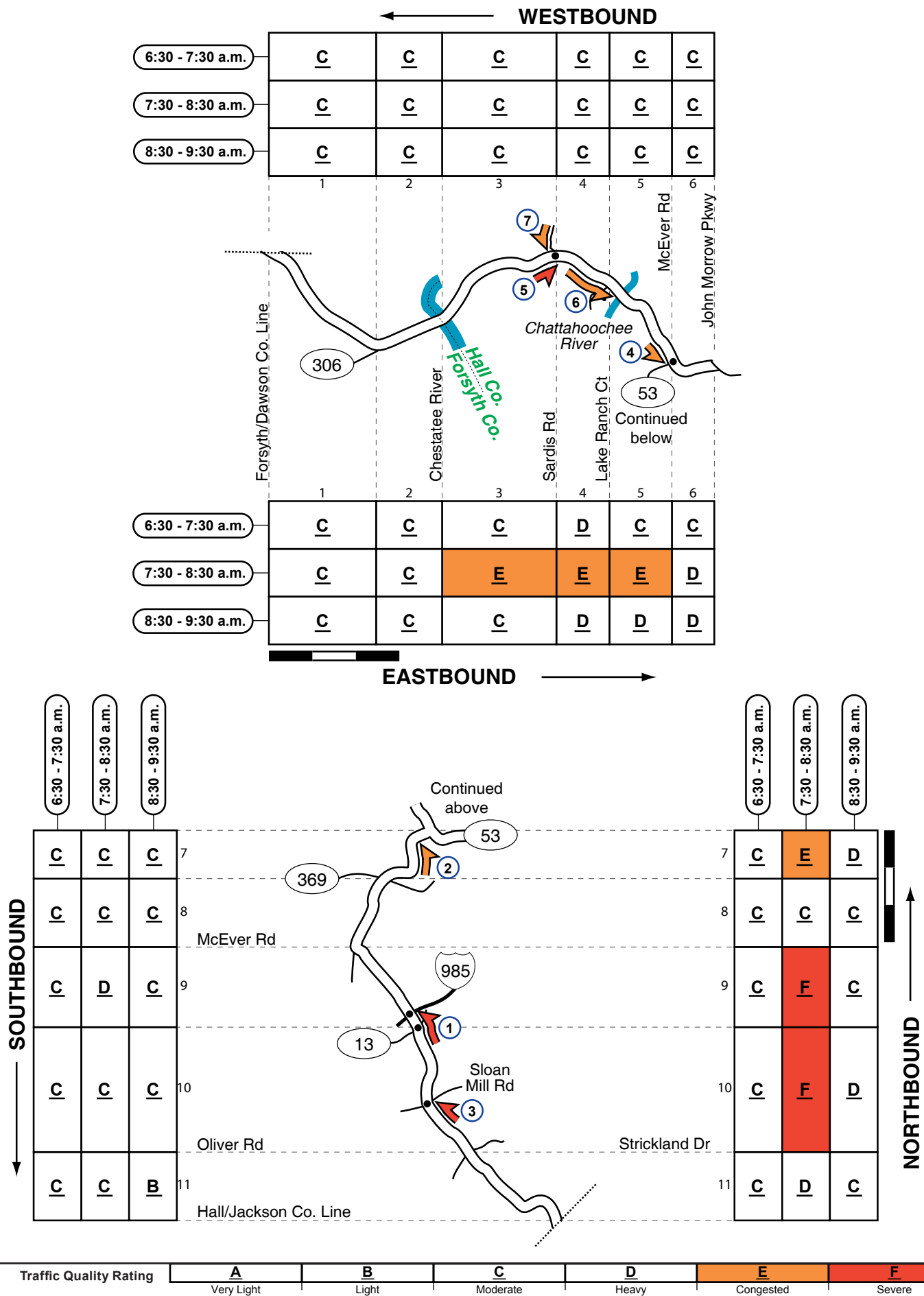
SR 42 (HENRY COUNTY) - EVENING

- ① Signal Queue
Intersection: SR 138
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ② Signal Queue
Intersection: Campground Rd
Frequency: Most observations after 5:00 p.m.
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ③ Signal Queues
Intersection: Campground Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 90 vpl
Number of Lanes: One

Intersection: Jodeco Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ④ Signal Queue
Intersection: Eagles Landing Pkwy
Frequency: Most observations before 5:30 p.m.
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑤ Signal Queue
Intersections: SR 920 & SR 20
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
Note: Signals very closely spaced

Platoons
Location: Between Jodeco Rd & SR 20
Frequency: Intermittent
Direction: Southbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One
- ⑥ Signal Queue
Intersection: Peeksville Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
Note: In some cases, congestion at the signal at Peeksville Rd extended back onto Bill Gardner Pkwy.
- ⑦ Congested Cross Road
Road Name: Eagles Landing Pkwy
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑧ Congested Cross Road
Road Name: Jodeco Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑨ Signal Queue
Intersection: Shields Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑩ Platoons
Location: Between SR 138 intersections
Frequency: Intermittent
Direction: Northbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: Two
- ⑪ Congested Cross Road
Road Name: SR 920
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ⑫ Congested Cross Road
Road Name: SR 20
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

SR 53 (FORSYTH & HALL COUNTIES) - MORNING



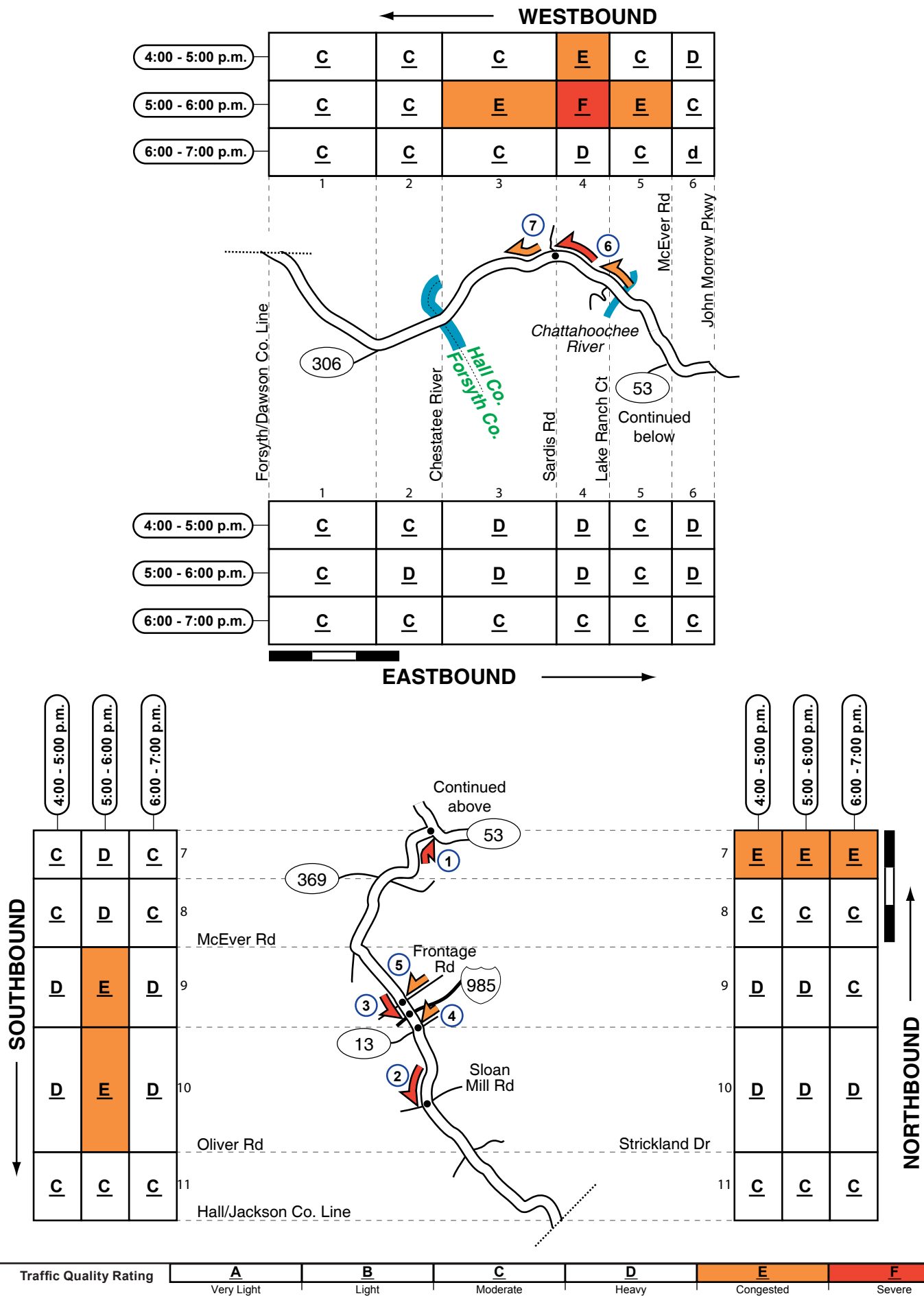
SR 53 (FORSYTH & HALL COUNTIES) - MORNING

- ① Signal Queues
 Intersections: I-985 & SR 13
 Frequency: Middle hour
 Direction: Northbound
 Queue Populations: 20 to 90 vpl
 Number of Lanes: Two
 Note: In some cases, northbound congestion at the signals at I-985 extended back through the upstream signal at SR 13.
- ② Platoons
 Location: Between SR 369 & Dawsonville Hwy
 Frequency: Middle hour
 Platoon Populations: 25 to 35 vpl
 Number of Lanes: One
 Note: This section of SR 53 was under construction throughout the fall survey period.
- ③ Signal Queue
 Intersection: Sloan Mill Rd
 Frequency: Middle hour
 Direction: Northbound
 Queue Populations: 20 to 100 vpl
 Number of Lanes: One
 Note: Northbound congestion at Sloan Mill Rd was found on two of five mornings (between 7:30 and 8:30 a.m.); congestion was not found during any other observation.
- ④ Signal Queue
 Intersection: McEver Rd
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two
- ⑤ Signal Queue
 Intersection: Sardis Rd
 Frequency: Middle hour
 Direction: Eastbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One
- ⑥ Platoons
 Location: Between Sardis Rd & Chattahoochee River
 Frequency: Most observations
 Platoon Populations: 25 to 45 vpl
 Number of Lanes: One
- ⑦ Congested Cross Road
 Road Name: Sardis Rd
 Frequency: Middle hour
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 53 (FORSYTH & HALL COUNTIES) - EVENING



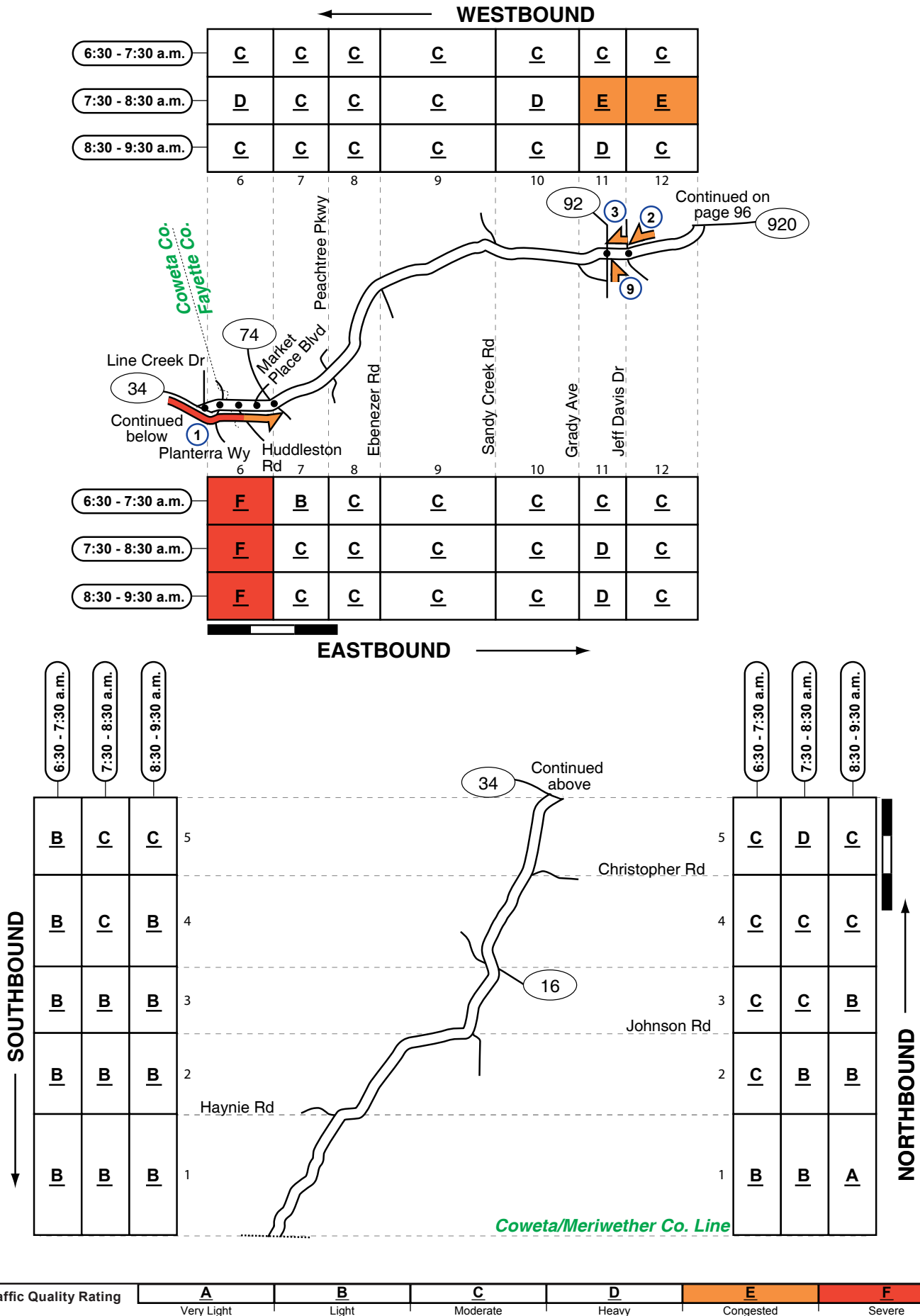
SR 53 (FORSYTH & HALL COUNTIES) - EVENING

- ① Signal Queue
 Intersection: Dawsonville Hwy
 Frequency: Most observations
 Direction: Northbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: One
 Note: SR 53 was under construction (between SR 369 & Dawsonville Hwy) throughout the fall survey period.
- ② Signal Queue
 Intersection: Sloan Mill Rd
 Frequency: Most observations before 6:00 p.m.
 Direction: Southbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One
- ③ Signal Queues
 Intersections: I-985 & Frontage Rd
 Frequency: Middle hour
 Direction: Southbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: Two
- ④ Congested Cross Road
 Road Name: SR 13
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One
 Note: Head of queue was found in the dedicated left-turn lane at the signal.
- ⑤ Congested Cross Road
 Road Name: Frontage Rd
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One
- ⑥ Signal Queue
 Intersection: Sardis Rd
 Frequency: Most observations
 Direction: Westbound
 Queue Populations: 20 to 90 vpl
 Number of Lanes: One
 Note: In some cases, westbound congestion at Sardis Rd extended back onto the bridge at the Chattahoochee River (a distance of approximately 1.5 miles).
- ⑦ Platoons
 Location: Between Sardis Rd & Chestatee River
 Frequency: Middle hour
 Direction: Westbound
 Platoon Populations: 25 to 35 vpl
 Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 54 COWETA/FAYETTE/CLAYTON & FULTON COUNTIES) - MORNING



SR 54 COWETA/FAYETTE/CLAYTON & FULTON COUNTIES) - MORNING

① Signal Queues

Intersections: Line Creek Dr, Planterra Way, Huddleston Rd, Market Place Blvd & SR 74

Frequency: Most observations

Direction: Eastbound

Queue Populations: 20 to 130 vpl

Number of Lanes: One

Note: During the peak period, a mostly continuous zone of congestion typically extended from SR 74 back through the intersection at SR 34 and SR 54 (a distance of approximately two miles).

② Signal Queue

Intersection: Jeff Davis Dr

Frequency: Middle hour

Direction: Westbound

Queue Populations: 20 to 35 vpl

Number of Lanes: Two

③ Signal Queue

Intersection: SR 92

Frequency: Middle hour

Direction: Westbound

Queue Populations: 20 to 40 vpl

Number of Lanes: Two

⑨ Congested Cross Road

Road Name: SR 92

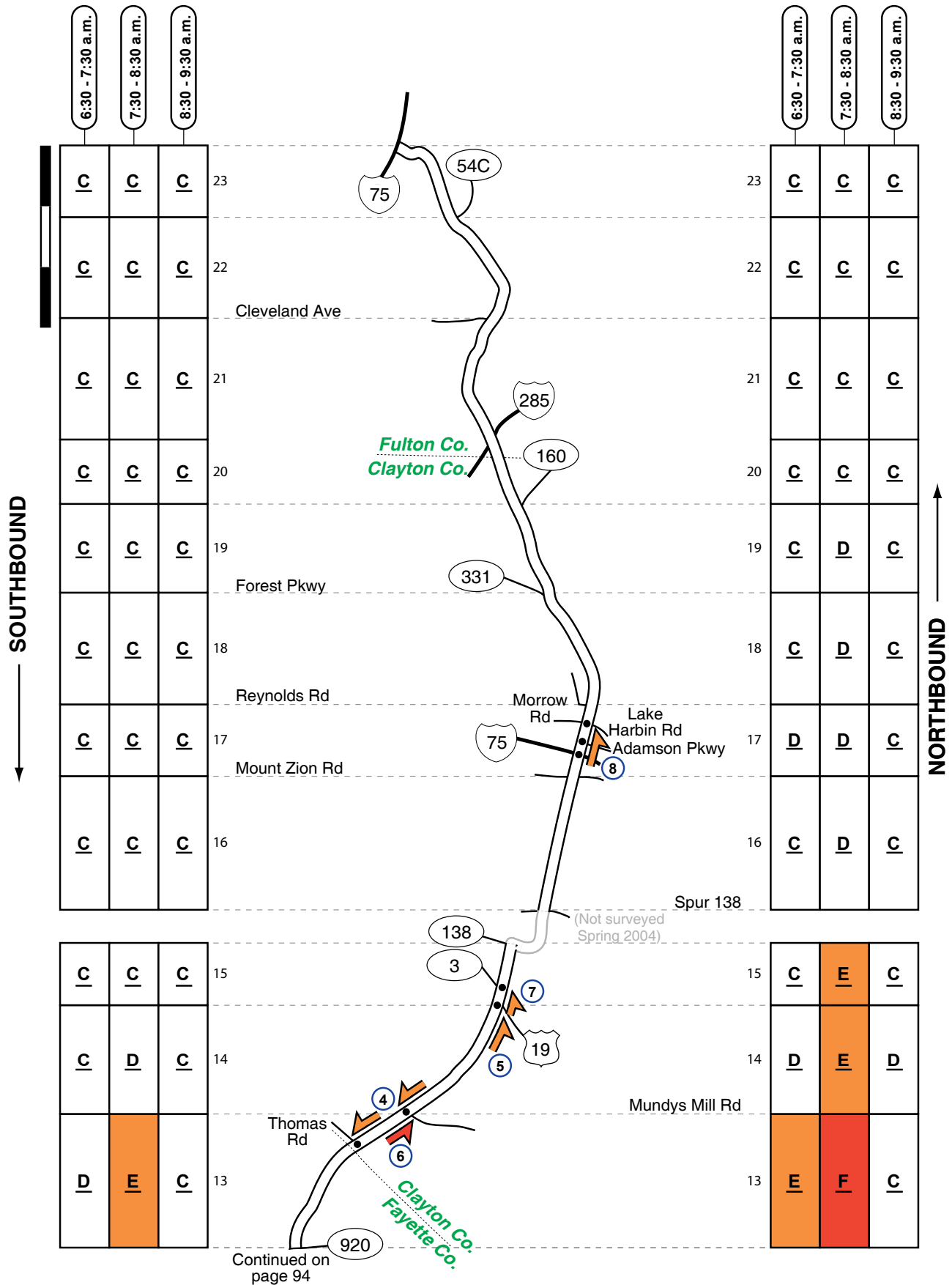
Frequency: Intermittent

Direction: Northbound

Queue Populations: 20 to 40 vpl

Number of Lanes: Two

SR 54 COWETA/FAYETTE/CLAYTON & FULTON COUNTIES) - MORNING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

F

Severe

SR 54 COWETA/FAYETTE/CLAYTON & FULTON COUNTIES) - MORNING

④ Signal Queues

Intersections: Thomas Rd & Mundys Mill Rd

Frequency: Intermittent

Direction: Southbound

Queue Populations: 20 to 25 vpl

Number of Lanes: One

⑤ Signal Queue

Intersection: SR 3 / US 19

Frequency: Intermittent

Direction: Northbound

Queue Populations: 20 to 25 vpl

Number of Lanes: Two

⑥ Signal Queue

Intersection: Mundy's Mill Rd

Frequency: Most observations before 8:30 a.m.

Direction: Northbound

Queue Populations: 30 to 60 vpl

Number of Lanes: One

⑦ Signal Queue

Intersection: SR 3 / US 19

Frequency: Intermittently during middle hour

Direction: Northbound

Queue Populations: 20 to 30 vpl

Number of Lanes: Three

⑧ Signal Queues

Intersections: I-75, Adamson Pkwy & Morrow Rd

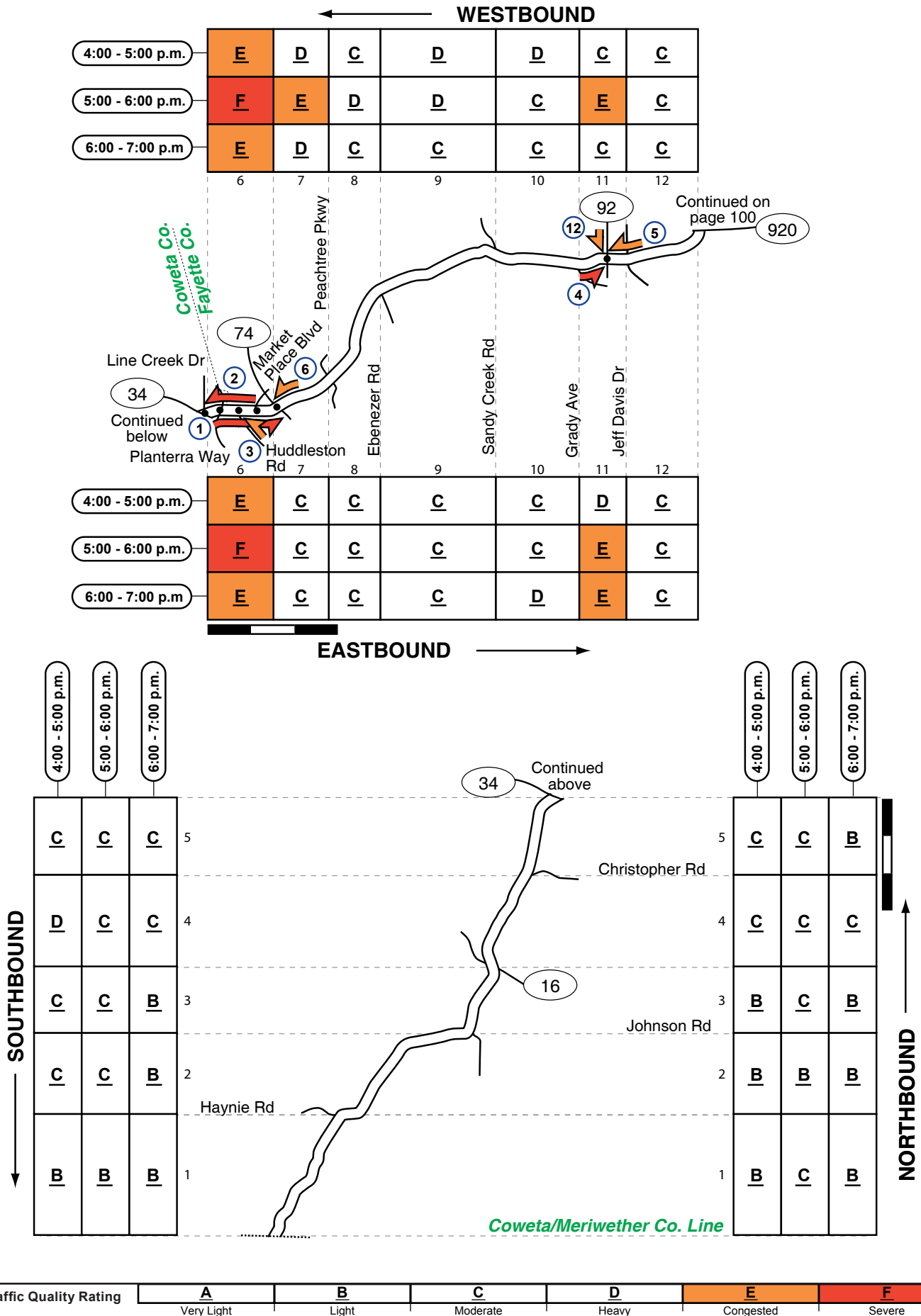
Frequency: Intermittent

Direction: Northbound

Queue Populations: 20 to 30 vpl

Number of Lanes: Two

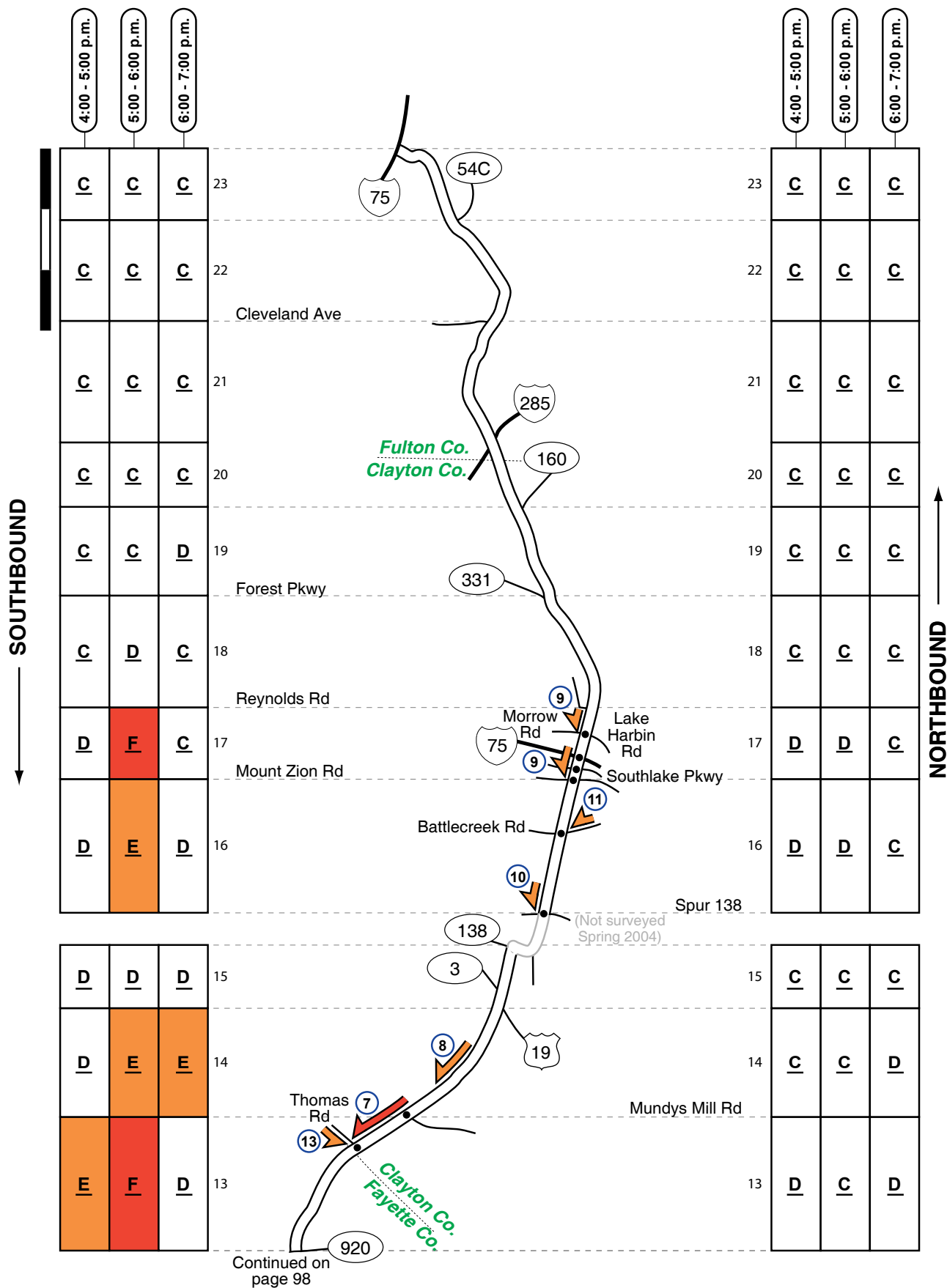
SR 54 COWETA/FAYETTE/CLAYTON & FULTON COUNTIES) - EVENING



SR 54 COWETA/FAYETTE/CLAYTON & FULTON COUNTIES) - EVENING

- ① Signal Queues
 Intersections: Planterra Way, Huddleston Rd, Market Place Blvd & SR 74
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 60 vpl
 Number of Lanes: One
 Note: During the peak period, congestion often backed through an upstream signal.
- ② Signal Queues
 Intersections: Market Place Blvd, Huddleston Rd, Planterra Way & Line Creek Rd
 Frequency: Most observations
 Direction: Westbound
 Queue Populations: 20 to 80 vpl
 Number of Lanes: One & Two
 Note: During the peak period, congestion often backed through an upstream signal.
- ③ Congested Cross Road
 Road Name: Huddleston Rd
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One
- ④ Signal Queue
 Intersection: SR 92
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two
- ⑤ Signal Queue
 Intersection: SR 92
 Frequency: Intermittently during the middle hour
 Direction: Westbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: Two
- ⑥ Signal Queue
 Intersection: SR 74
 Frequency: Intermittently
 Direction: Westbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two
- ⑫ Congested Cross Rd
 Road Name: SR 92
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: Two

SR 54 COWETA/FAYETTE/CLAYTON & FULTON COUNTIES) - EVENING

Continued on
page 98

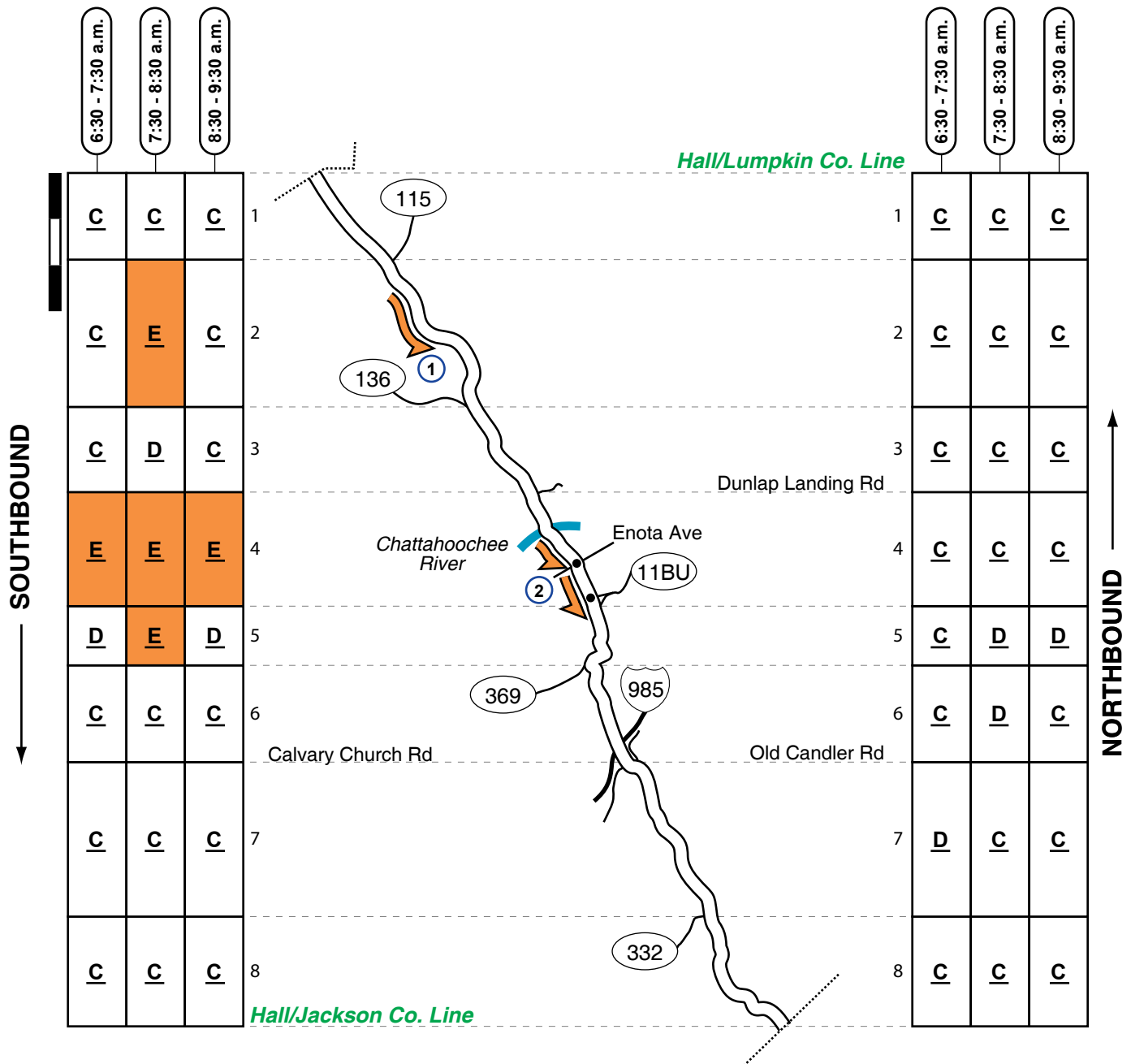
SR 54 COWETA/FAYETTE/CLAYTON & FULTON COUNTIES) - EVENING

- ⑦ Signal Queue
 Intersection: Thomas Rd
 Frequency: Most observations before 6:00 p.m.
 Direction: Southbound
 Queue Populations: 20 to 100 vpl
 Number of Lanes: One
 Note: In some cases, southbound congestion at Thomas Rd extended back through the upstream signal at Mundys Mill Rd.
- ⑧ Platoons
 Location: Between SR 3/US 41 and Mundys Mill Rd
 Frequency: Most observations after 5:00 p.m.
 Direction: Southbound
 Platoon Populations: 25 to 35 vpl
 Number of Lanes: One
- ⑨ Signal Queues
 Intersections: Morrow Rd, I-75, Southlake Pkwy & Mount Zion Rd
 Frequency: Most observations before 6:00 p.m.
 Direction: Southbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: Two
- ⑩ Signal Queue
 Intersection: Spur 138
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: Two
- ⑪ Congested Cross Road
 Road Name: Battlecreek Rd
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One
- ⑬ Congested Cross Road
 Road Name: Thomas Rd
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 60 (HALL COUNTY) - MORNING



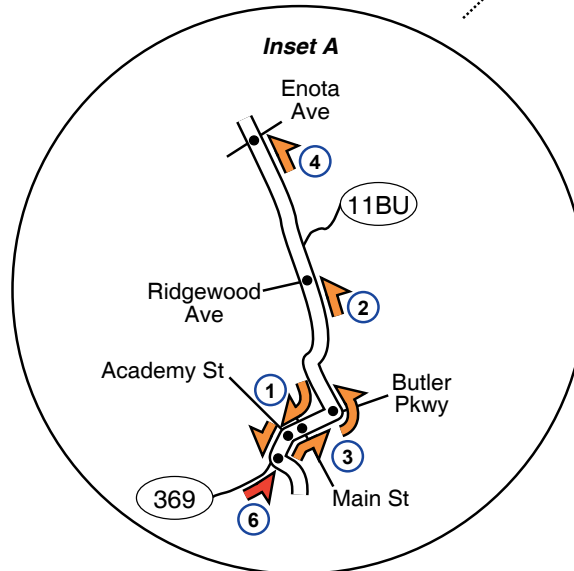
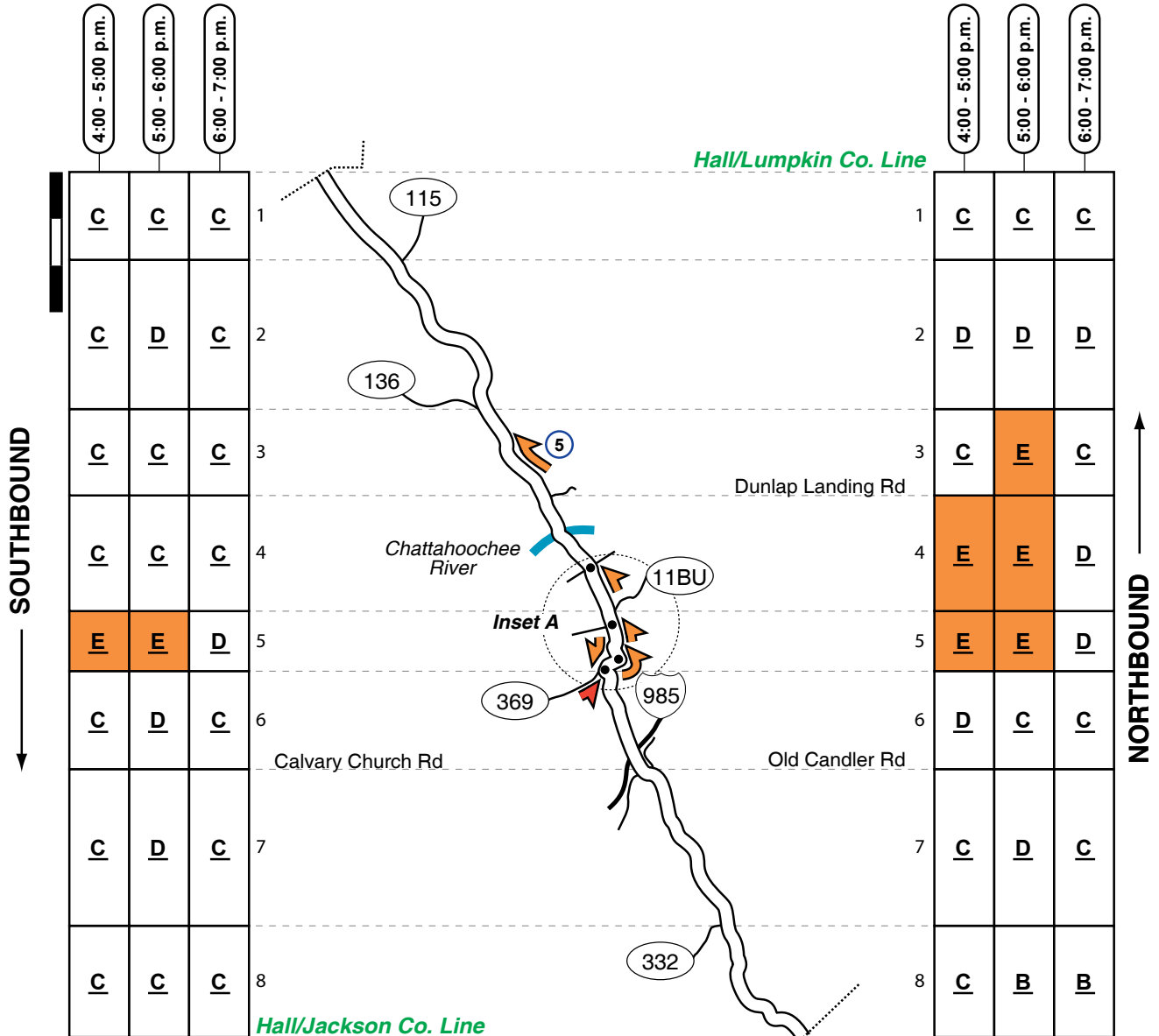
- ① Platoons
 Location: Between SR 115 & SR 136
 Frequency: Middle hour (intermittent)
 Direction: Southbound
 Platoon Populations: 25 to 30 vpl
 Number of Lanes: One

- ② Platoons/Queues
 Location: Between the Chattahoochee River & SR 11
 Frequency: Most observations
 Direction: Southbound
 Platoon/Queue Populations: 25 to 50 vpl
 Number of Lanes: Two

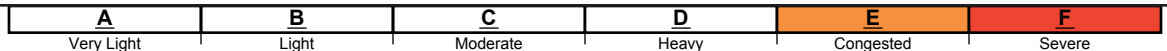
Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 60 (HALL COUNTY) - EVENING



Traffic Quality Rating



SR 60 (HALL COUNTY) - EVENING

① Signal Queues

Intersections: Main St, Academy St & SR 369
Frequency: Most observations before 6:00 p.m.
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

② Signal Queue

Intersection: Ridgewood Ave
Frequency: Most observations before 6:00 p.m.
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

③ Platoons

Location: Vicinity of the signals at Academy St, Main St & SR 11/Butler Pkwy
Frequency: Most observations before 6:00 p.m.
Direction: Northbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two

④ Signal Queue

Intersection: Enota Ave
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two

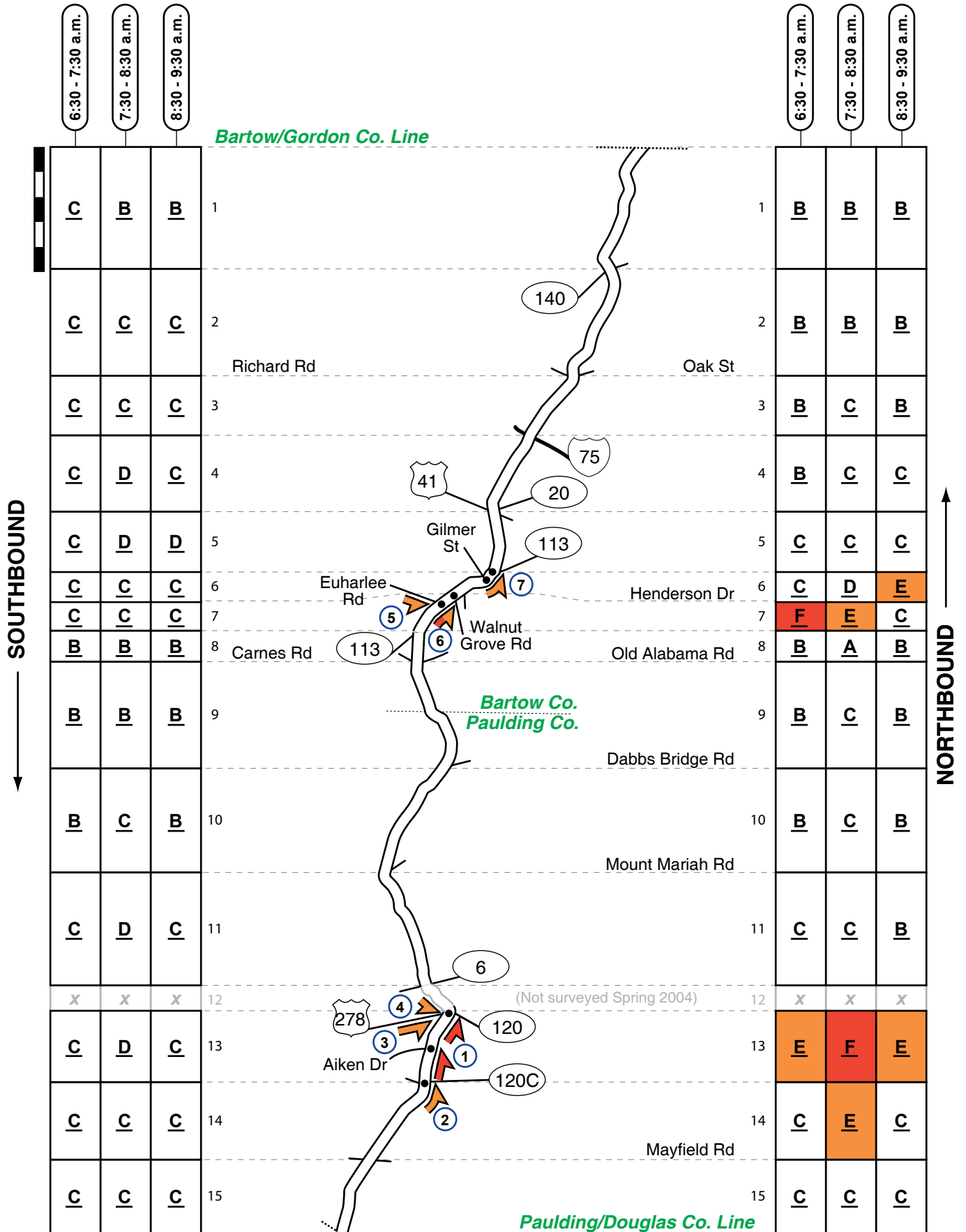
⑤ Platoons

Location: Between the Dunlap Landing Rd & SR 136
Frequency: Middle hour
Direction: Northbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: Two

⑥ Congested Cross Road

Road Name: SR 369
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two

SR 61 (BARTOW & PAULDING COUNTIES) - MORNING



Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 61 (BARTOW & PAULDING COUNTIES) - MORNING

- ① Signal Queues
 Intersection: SR 120
 Frequency: Most observations
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One
- Intersection: Aiken Dr
 Frequency: Middle hour
 Direction: Northbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: One
- ② Signal Queue
 Intersection: SR 120C
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One
- ③ Congested Cross Road
 Road Name: SR 120
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: Two
- ④ Signal Queue
 Intersection: SR 120
 Frequency: Middle hour
 Direction: Southbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One
- ⑤ Congested Cross Road
 Road Name: Euharlee Rd
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: One
- ⑥ Signal Queue
 Intersections: Euharlee Rd & Walnut Grove Rd
 Frequency: Between 7:00 and 8:00 a.m.
 Direction: Northbound
 Queue Populations: 20 to 80 vpl
 Number of Lanes: One
- ⑦ Signal Queues
 Intersections: SR 113 & Gilmer St
 Frequency: Intermittently after 8:00 a.m.
 Direction: Northbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

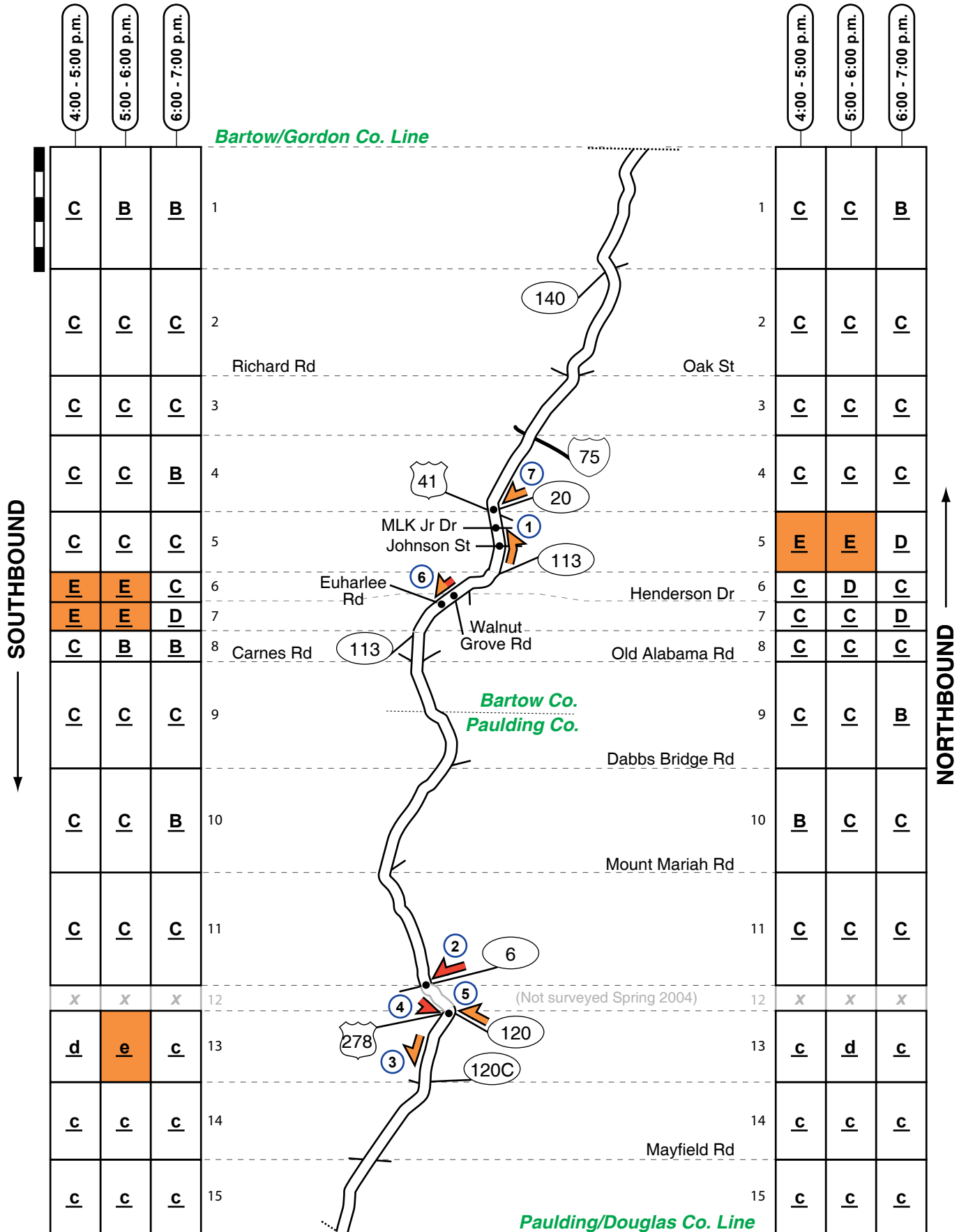
E

Congested

F

Severe

SR 61 (BARTOW & PAULDING COUNTIES) - EVENING



Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 61 (BARTOW & PAULDING COUNTIES) - EVENING

- ① Signal Queues
Intersections: Johnson St & Martin Luther King Jr. Dr
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

- ② Congested Cross Road
Road Name: SR 6
Frequency: Most observations first hour / Intermittent after 5:00 p.m.
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One

- ③ Platoons
Location: Between SR 120 & SR 120C
Frequency: Middle hour
Direction: Southbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One

- ④ Signal Queue
Intersections: SR 120
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One

- ⑤ Congested Cross Road
Road Name: SR 120
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One (dedicated left-turn lane)

- ⑥ Signal Queues
Intersection: Walnut Grove Rd
Frequency: Most observations before 6:00 p.m.
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

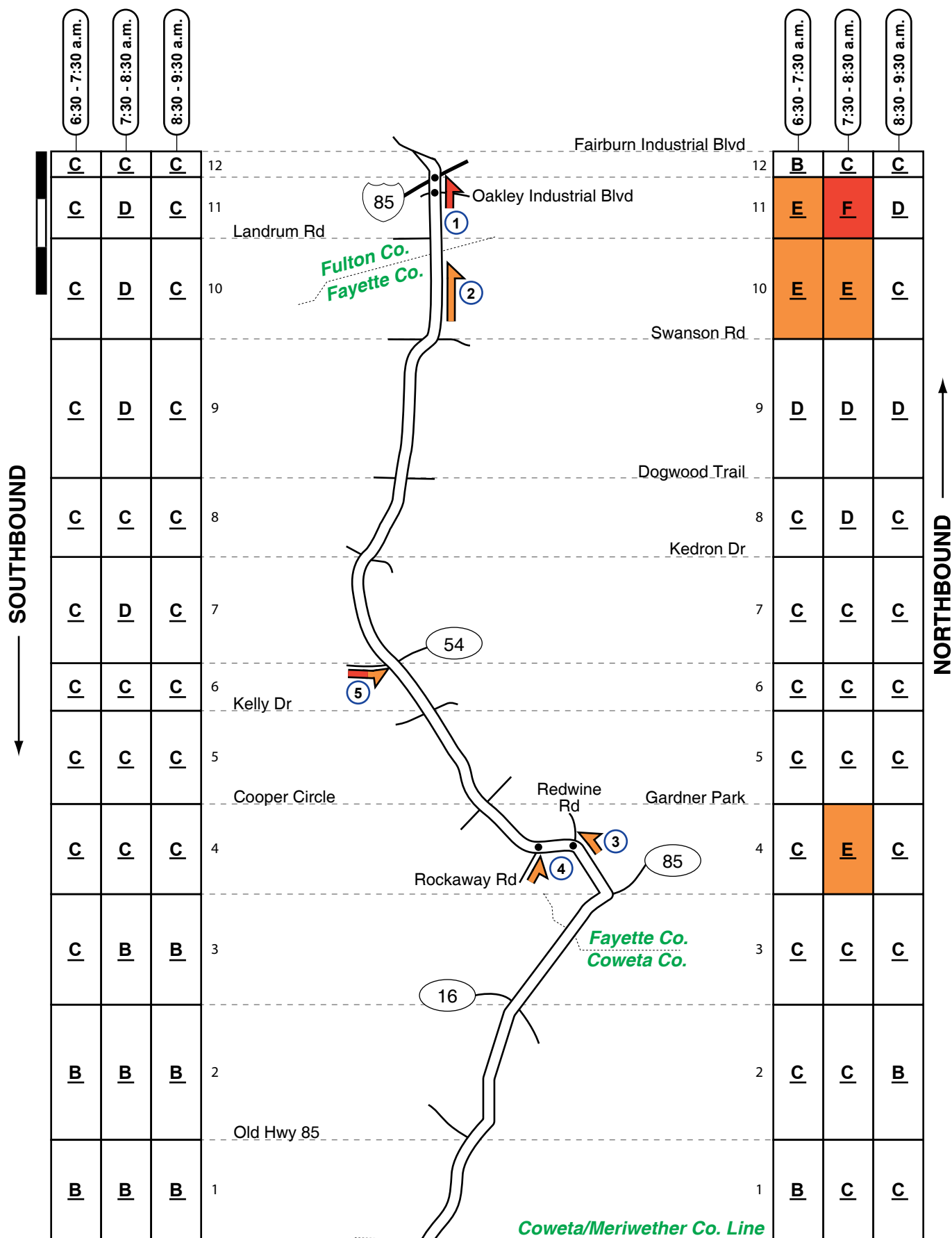
Intersection: Euharlee Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

- ⑦ Congested Cross Road
Road Name: SR 20
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 74 (FULTON/FAYETTE & COWETA COUNTIES) - MORNING



Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 74 (FULTON/FAYETTE & COWETA COUNTIES) - MORNING

- ① Signal Queue(s)
Intersections: Oakley Industrial Blvd & I-85
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 90 vpl
Number of Lanes: Two

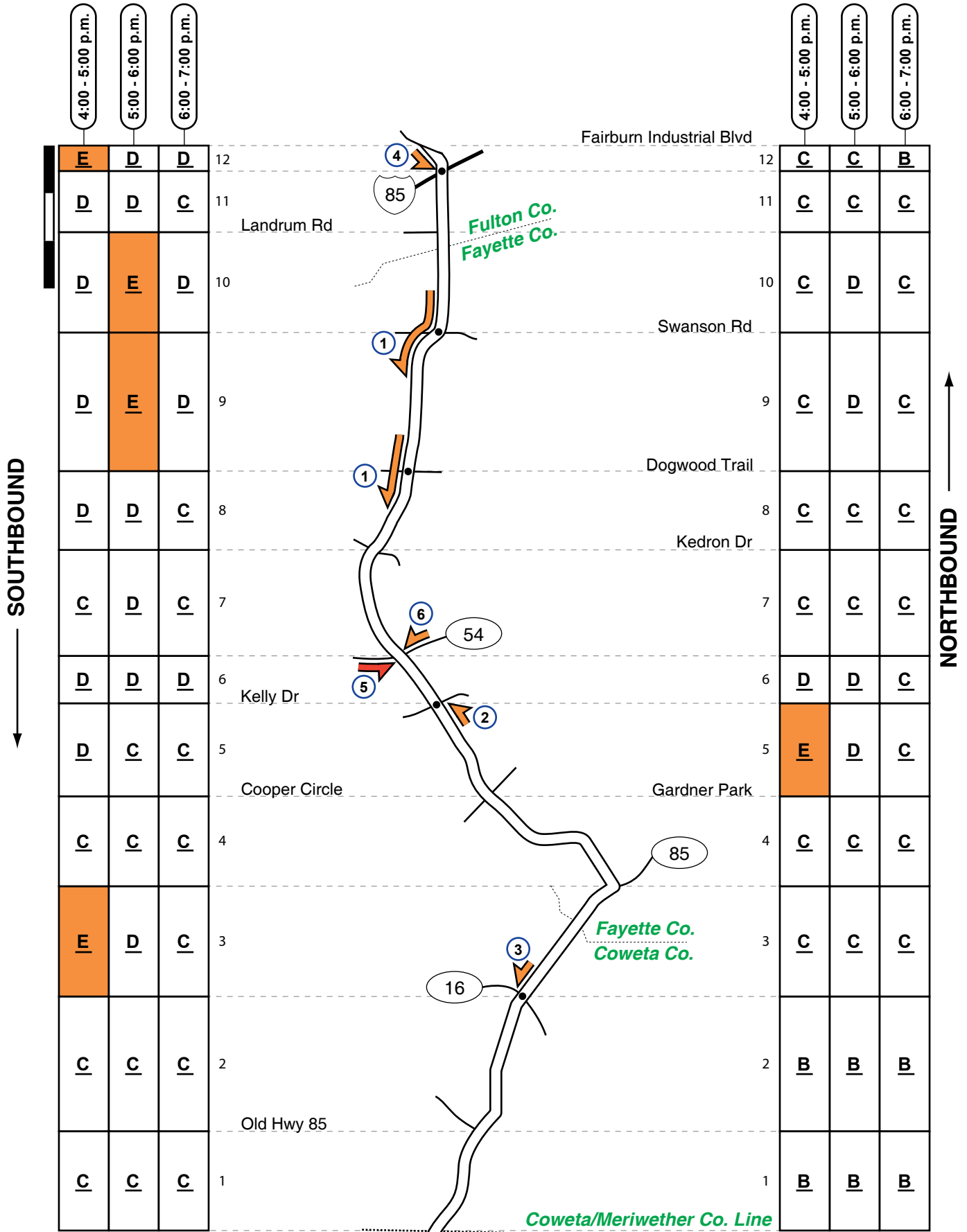
- ② Platoons
Location: Between Swanson Rd and Landrum Rd
Frequency: Most observations before 8:00 a.m.
Direction: Northbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two

- ③ Signal Queue
Intersection: Redwine Rd
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

- ④ Congested Cross Road
Road Name: Rockaway Rd
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

- ⑤ Congested Cross Road
Road Name: SR 54
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 130 vpl
Number of Lanes: One

SR 74 (FULTON/FAYETTE & COWETA COUNTIES) - EVENING



Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 74 (FULTON/FAYETTE & COWETA COUNTIES) - EVENING

① Platoons
Location: Vicinity of the signals at Swanson Rd & Dogwood Trail
Frequency: Middle hour
Direction: Southbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: Two

② Signal Queue
Intersection: Kelly Dr
Frequency: Early in survey period
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

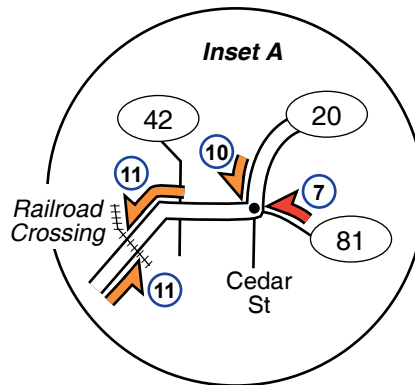
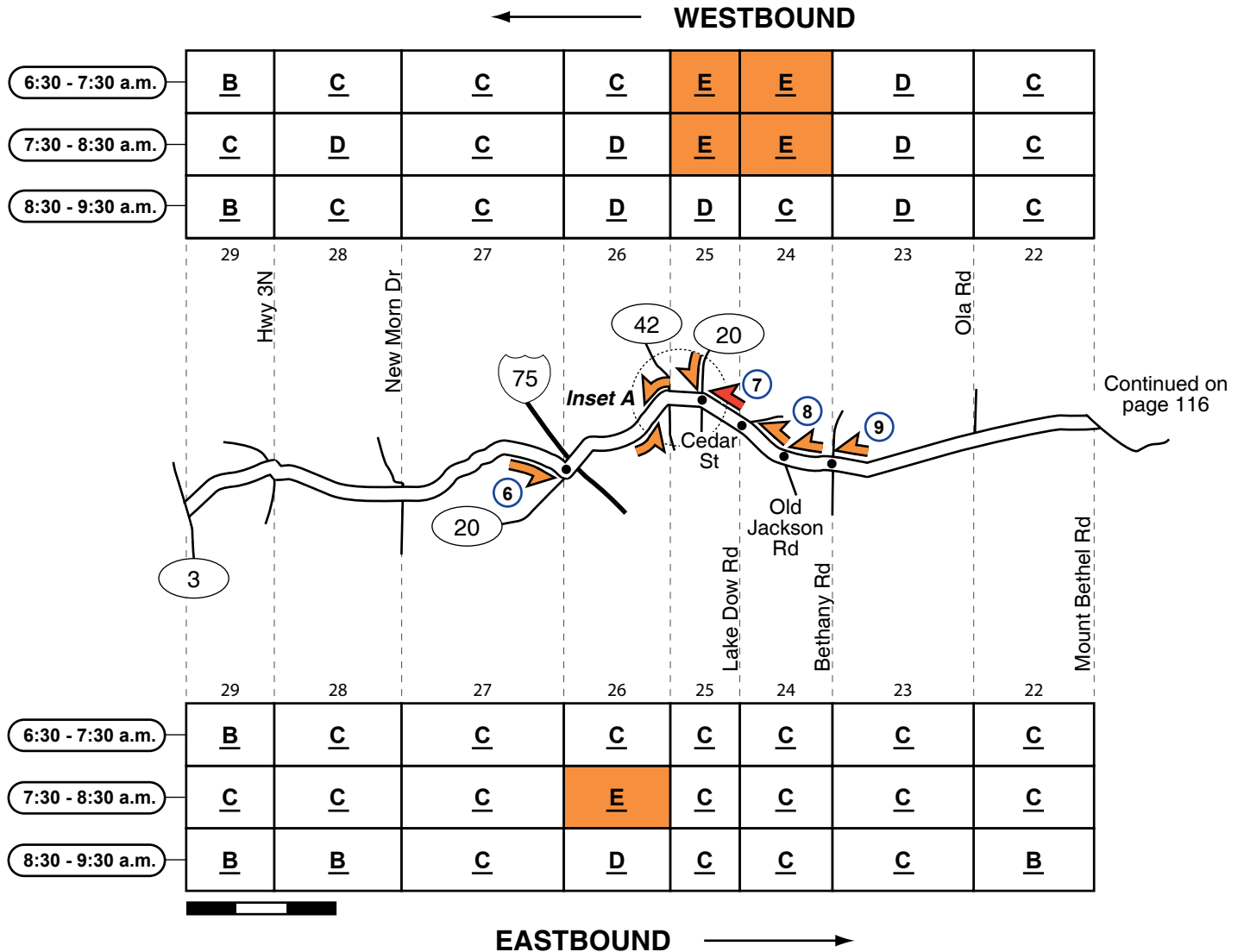
③ Signal Queue
Intersection: SR 16
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

④ Signal Queue
Intersection: I-85
Frequency: Most observations before 5:00 p.m.
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

⑤ Congested Cross Road
Road Name: SR 54
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
Note: During the peak period, congestion often backed through an upstream signal.

⑥ Congested Cross Road
Road Name: SR 54
Frequency: Intermittently
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

SR 81 (BARROW/WALTON/NEWTON & HENRY COUNTIES) - MORNING



Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 81 (BARROW/WALTON/NEWTON & HENRY COUNTIES) - MORNING

- ⑥ Signal Queue
Intersection: SR 20
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
Note: Queue in dedicated left-turn lane

- ⑦ Signal Queue
Intersection: SR 20 / Cedar St
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 90 vpl
Number of Lanes: One

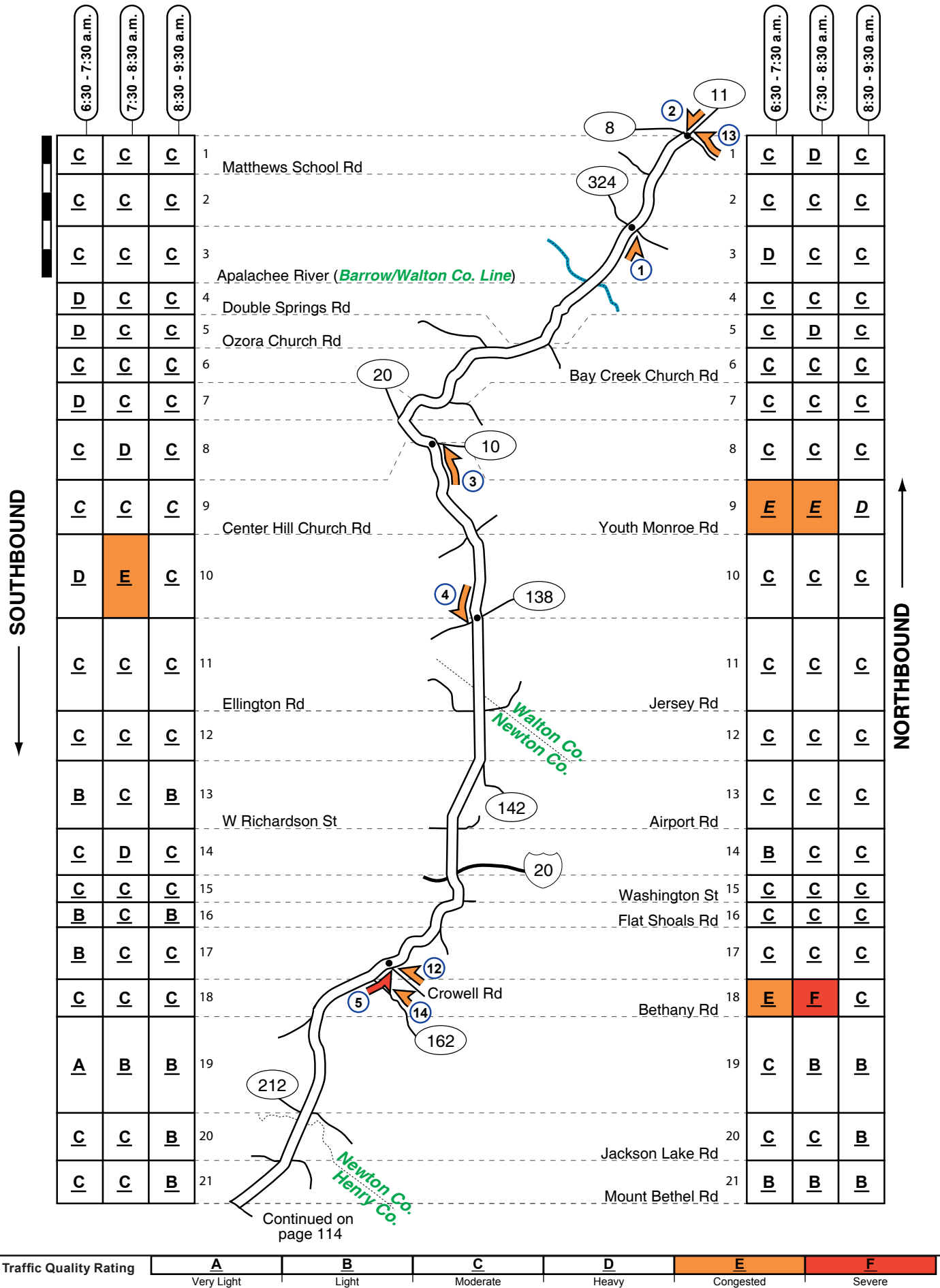
- ⑧ Platoons
Location: Vicinity of signals at Old Jackson Rd & Lake Dow Rd
Frequency: Early in the survey period
Direction: Westbound
Platoon Populations: 25 to 45 vpl
Number of Lanes: One

- ⑨ Signal Queue
Intersection: Bethany Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

- ⑩ Congested Cross Road
Road Name: SR 20
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 45 vpl
Number of Lanes: One

- ⑪ Queue (Railroad Crossing)
Intersection: Vicinity of Bridges Rd
Frequency: Intermittent
Direction: Eastbound & Westbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One

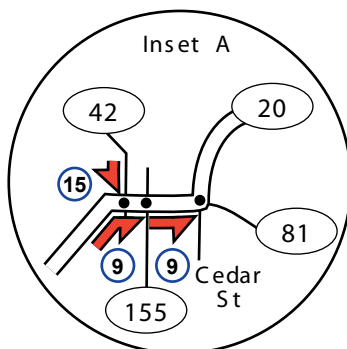
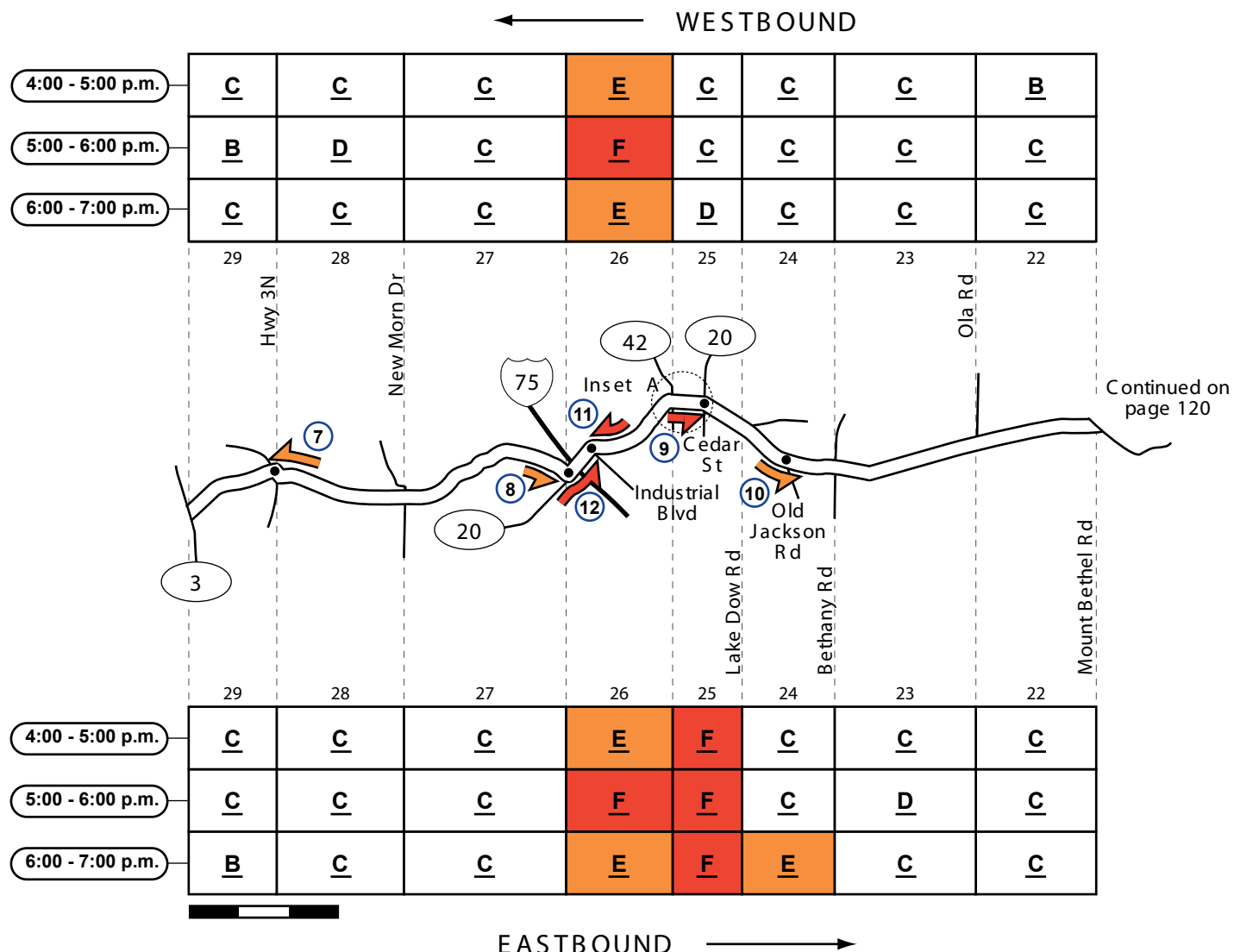
SR 81 (BARROW/WALTON/NEWTON & HENRY COUNTIES) - MORNING



SR 81 (BARROW/WALTON/NEWTON & HENRY COUNTIES) - MORNING

- ① Signal Queue
Intersection: SR 324
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ② Congested Cross Road
Road Name: SR 11
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ③ Signal Queue
Intersection: SR 10
Frequency: Most observations
Direction: Northbound
Queue Populations: 30 to 55 vpl
Number of Lanes: One
Note: Head of queue in dedicated left-turn lane
- ④ Signal Queue
Intersection: SR 138
Frequency: Middle hour
Direction: Southbound
Queue Populations: 25 to 45 vpl
Number of Lanes: One
- ⑤ Signal Queue
Intersection: Crowell Rd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 70 vpl
Number of Lanes: One
- ⑫ Congested Cross Road
Road Name: Crowell Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑬ Congested Cross Road
Road Name: SR 8
Frequency: Most observations after 7:30 a.m.
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑭ Congested Cross Road
Road Name: SR 162
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

SR 81 (BARROW/WALTON/NEWTON & HENRY COUNTIES) - EVENING

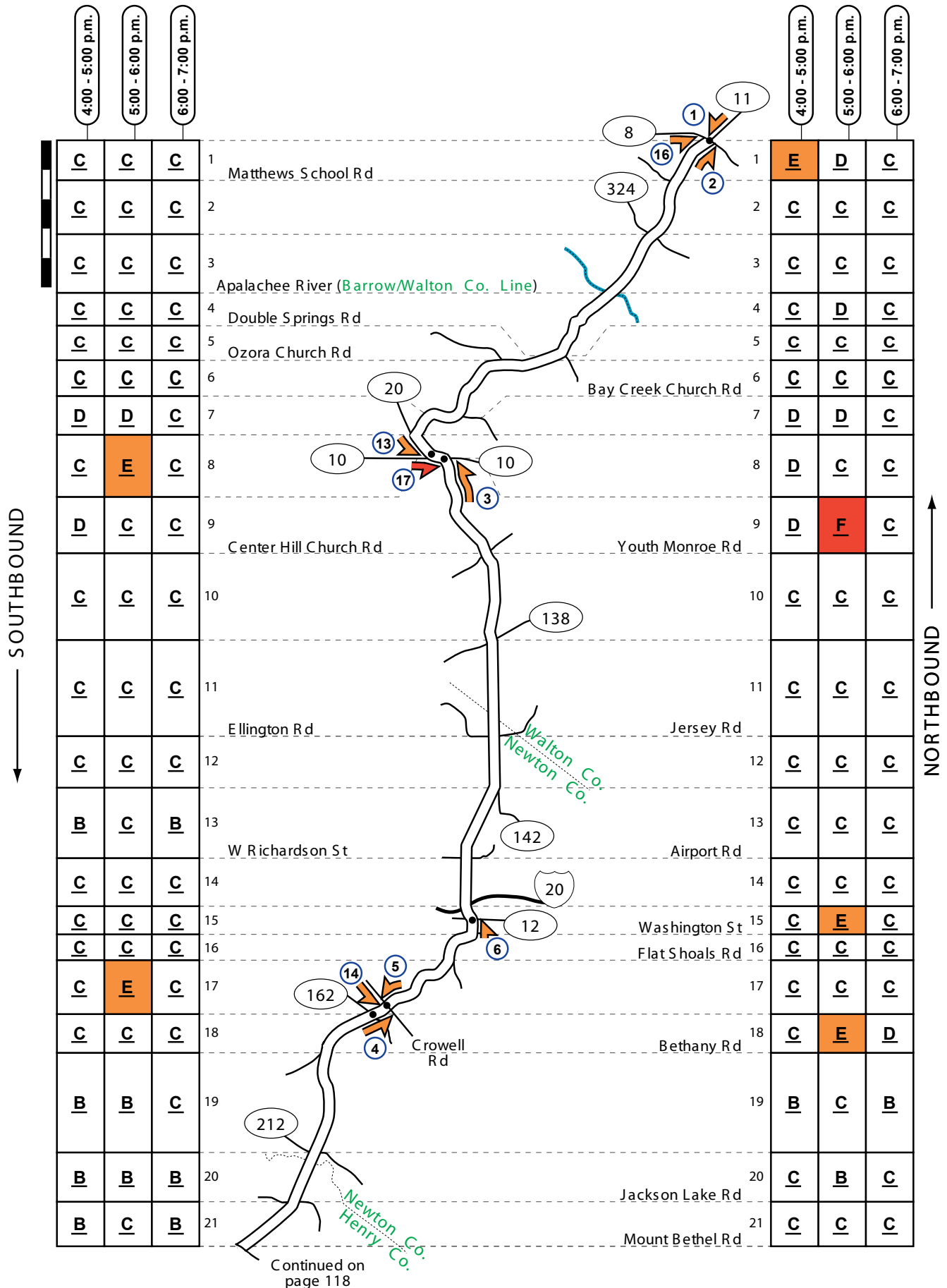


Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 81 (BARROW/WALTON/NEWTON & HENRY COUNTIES) - EVENING

- ⑦ Signal Queue
 Intersection: Hwy 3N
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One
- ⑧ Signal Queue
 Intersection: SR 20
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One
 Note: Queue in dedicated left-turn lane
- ⑨ Signal Queues
 Intersections: SR 20/Cedar St, SR 155 & SR 42
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 70 vpl
 Number of Lanes: One
 Note: In some cases, eastbound congestion on SR 81 at SR 20 backed through the upstream signals at SR 155 and SR 42.
- ⑩ Platoons
 Location: Vicinity of signal at Old Jackson Rd
 Frequency: Late in survey period
 Direction: Eastbound
 Platoon Populations: 25 to 50 vpl
 Number of Lanes: One
- ⑪ Signal Queue
 Intersection: Industrial Blvd
 Frequency: Most observations
 Direction: Westbound
 Queue Populations: 20 to 100 vpl
 Number of Lanes: One
 Note: At its maximum observed extent, the queue extended back to the vicinity of Phillips Dr (a distance of approximately one mile).
- ⑫ Signal Queues
 Intersections: Industrial Blvd & I-75
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 80 vpl
 Number of Lanes: One
 Note: In some cases, eastbound congestion on SR 81 at Industrial Blvd backed through the upstream signals at I-75 and SR 20.
- ⑮ Congested Cross Road
 Road Name: SR 42
 Frequency: Most observations
 Direction: Southbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

SR 81 (BARROW/WALTON/NEWTON & HENRY COUNTIES) - EVENING

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

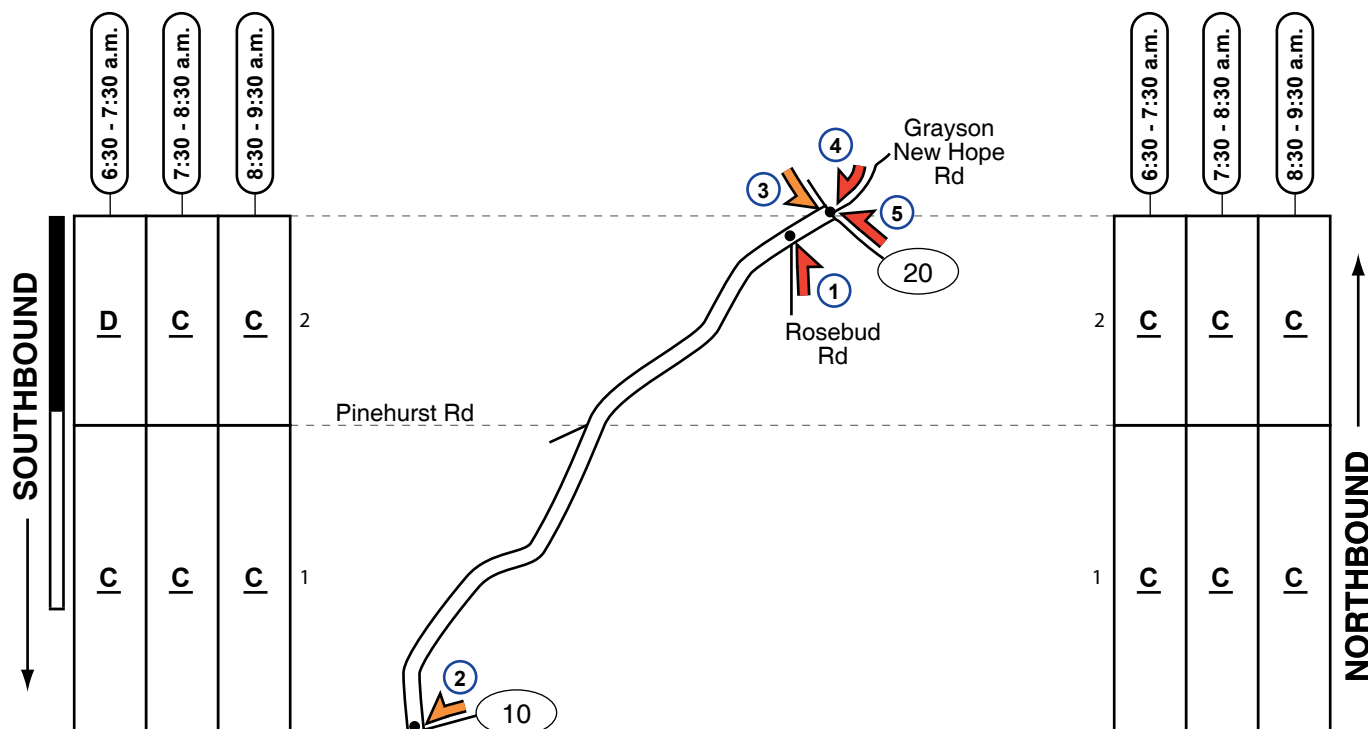
F

Severe

SR 81 (BARROW/WALTON/NEWTON & HENRY COUNTIES) - EVENING

- ① Congested Cross Road
Road Name: SR 11
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ② Signal Queue
Intersection: SR 8 / SR 11
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ③ Signal Queue
Intersection: SR 10
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One
Note: Head of queue in dedicated left-turn lane
- ④ Signal Queue
Intersection: Crowell Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑤ Signal Queue
Intersection: Crowell Rd
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑥ Signal Queue
Intersection: SR 12
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
Note: Intermittent congestion found just north of SR 212 at railroad crossing
- ⑬ Signal Queue
Intersection: SR 10
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑭ Congested Cross Road
Road Name: Crowell Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑮ Congested Cross Road
Road Name: SR 8
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑰ Congested Cross Road
Road Name: SR 10
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two

SR 84 (GWINNETT COUNTY) - MORNING



① Congested Cross Road
Road Name: Rosebud Rd
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One

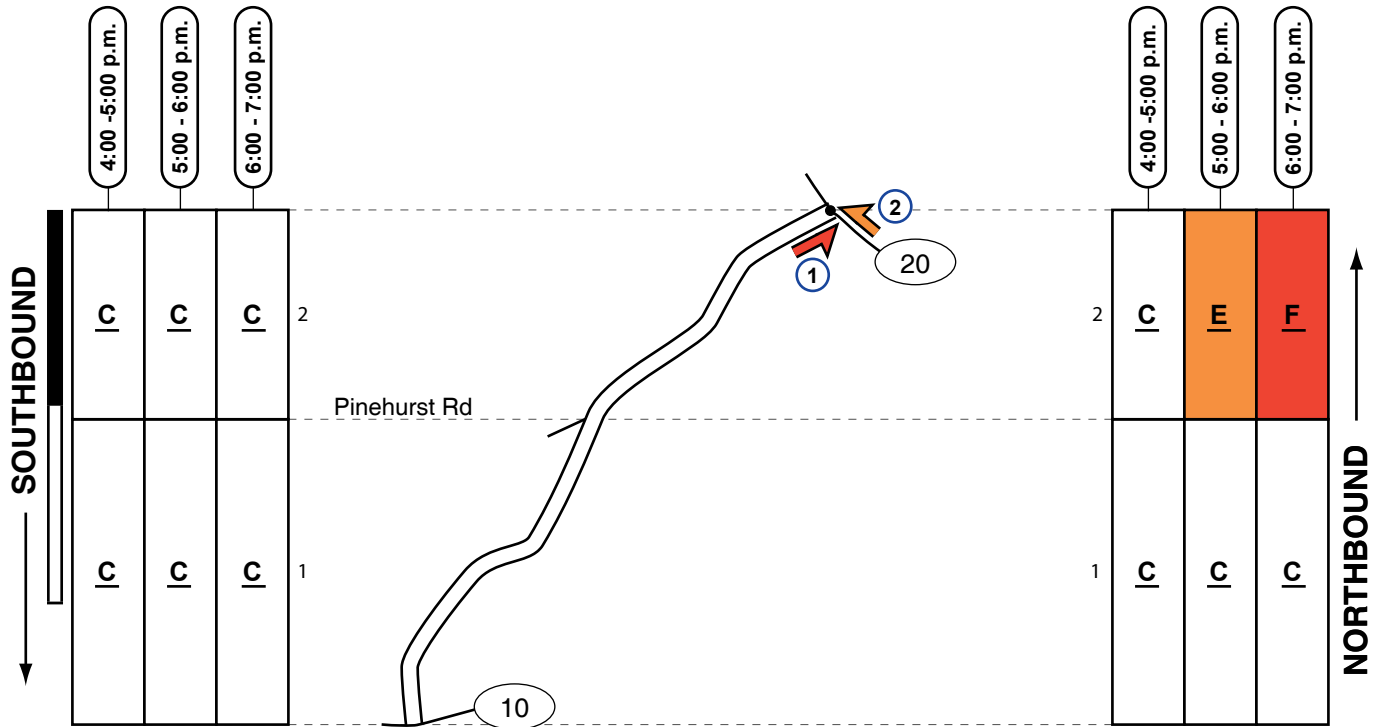
② Congested Cross Road
Road Name: SR 10
Frequency: Intermittently before 8:30 a.m.
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

③ Congested Cross Road
Road Name: SR 20
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

④ Congested Cross Road
Road Name: Grayson New Hope Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One

⑤ Congested Cross Road
Intersection: SR 20
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 100 vpl
Number of Lanes: One
Note: Construction on SR 20 at and north of the intersection at SR 84; no lane closures were found.

SR 84 (GWINNETT COUNTY) - EVENING



- ① Signal Queue
 Intersection: SR 20
 Frequency: Most observations after 4:30 p.m.
 Direction: Northbound
 Queue Populations: 20 to 60 vpl
 Number of Lanes: Two

- ② Congested Cross Rd
 Intersection: SR 20
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One
 Note: Construction on SR 20 at and north of the intersection at SR 84; no lane closures were found.

Traffic Quality Rating

A
Very Light

B
Light

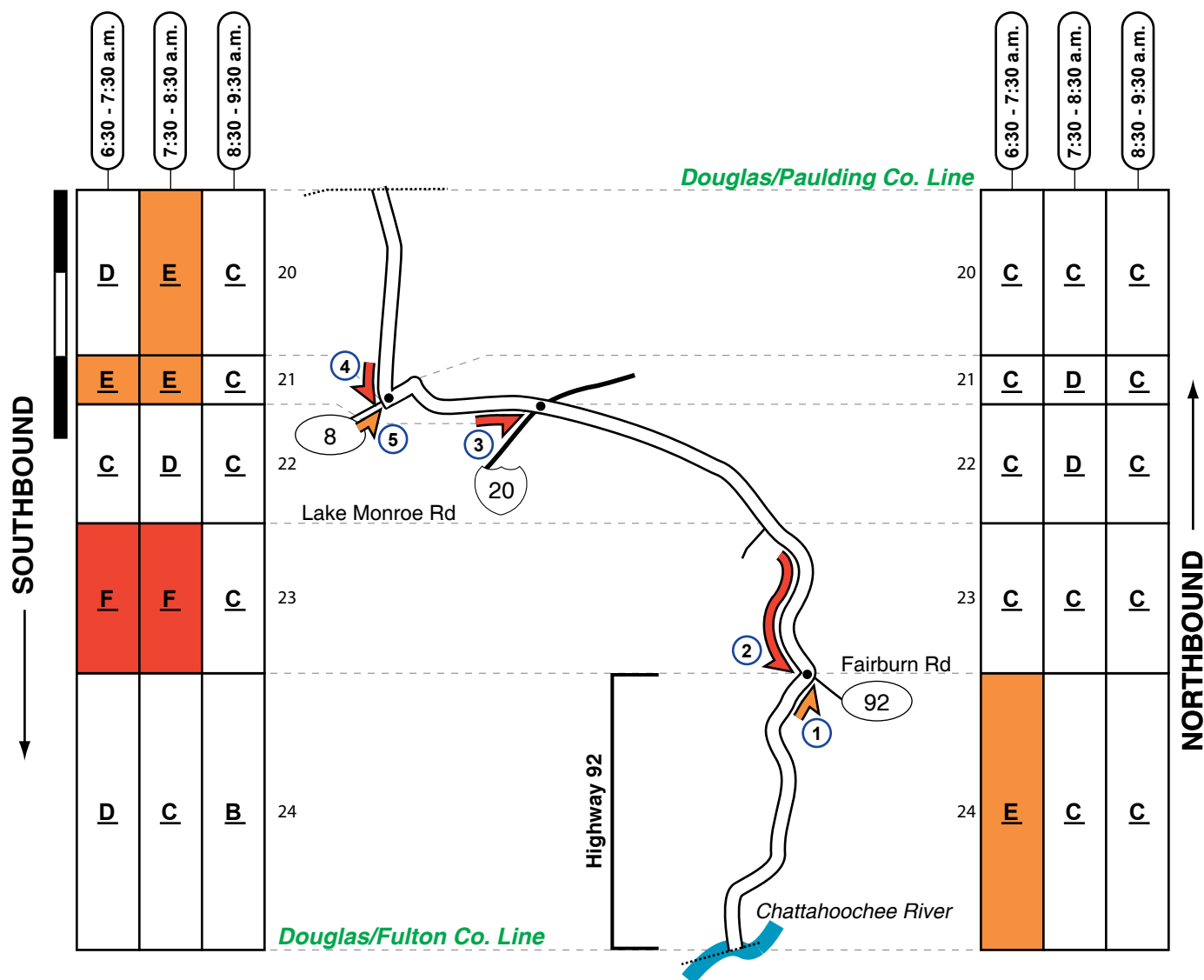
C
Moderate

D
Heavy

E
Congested

F
Severe

SR 92/HIGHWAY 92 (DOUGLAS COUNTY) - MORNING



- ① Signal Queue
Intersection: SR 92 / Fairburn Rd
Frequency: Early in survey period
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ② Signal Queue
Intersection: Highway 92
Frequency: Most observations before 8:30 a.m.
Direction: Southbound
Queue Populations: 20 to 150 vpl
Number of Lanes: One
Note: In some cases, southbound congestion on SR 92 approaching the signal at Highway 92 extended back to the vicinity of Lake Monroe Rd (a distance of approximately two miles).

- ③ Signal Queue
Intersection: I-20
Frequency: Most observations before 8:30 a.m.
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

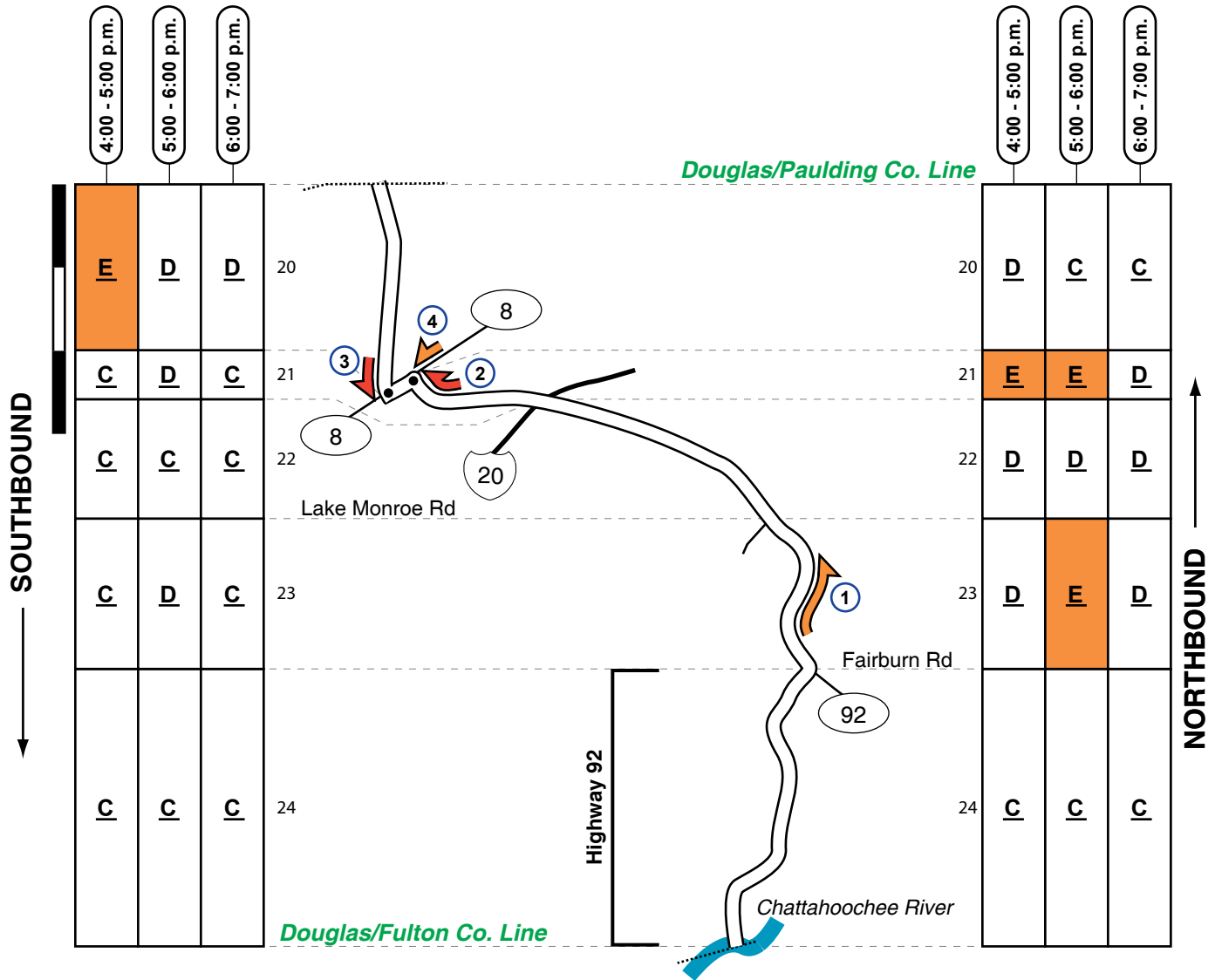
- ④ Signal Queue
Intersection: SR 8
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

- ⑤ Congested Cross Road
Road Name: SR 8
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 92/HIGHWAY 92 (DOUGLAS COUNTY) - EVENING



- ① **Platoons**
 Location: Between SR 92/Highway 92 and Lake Monroe Rd
 Frequency: Intermittent
 Direction: Northbound
 Platoon Populations: 25 to 45 vpl
 Number of Lanes: One

- ③ **Signal Queue**
 Intersection: SR 8
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

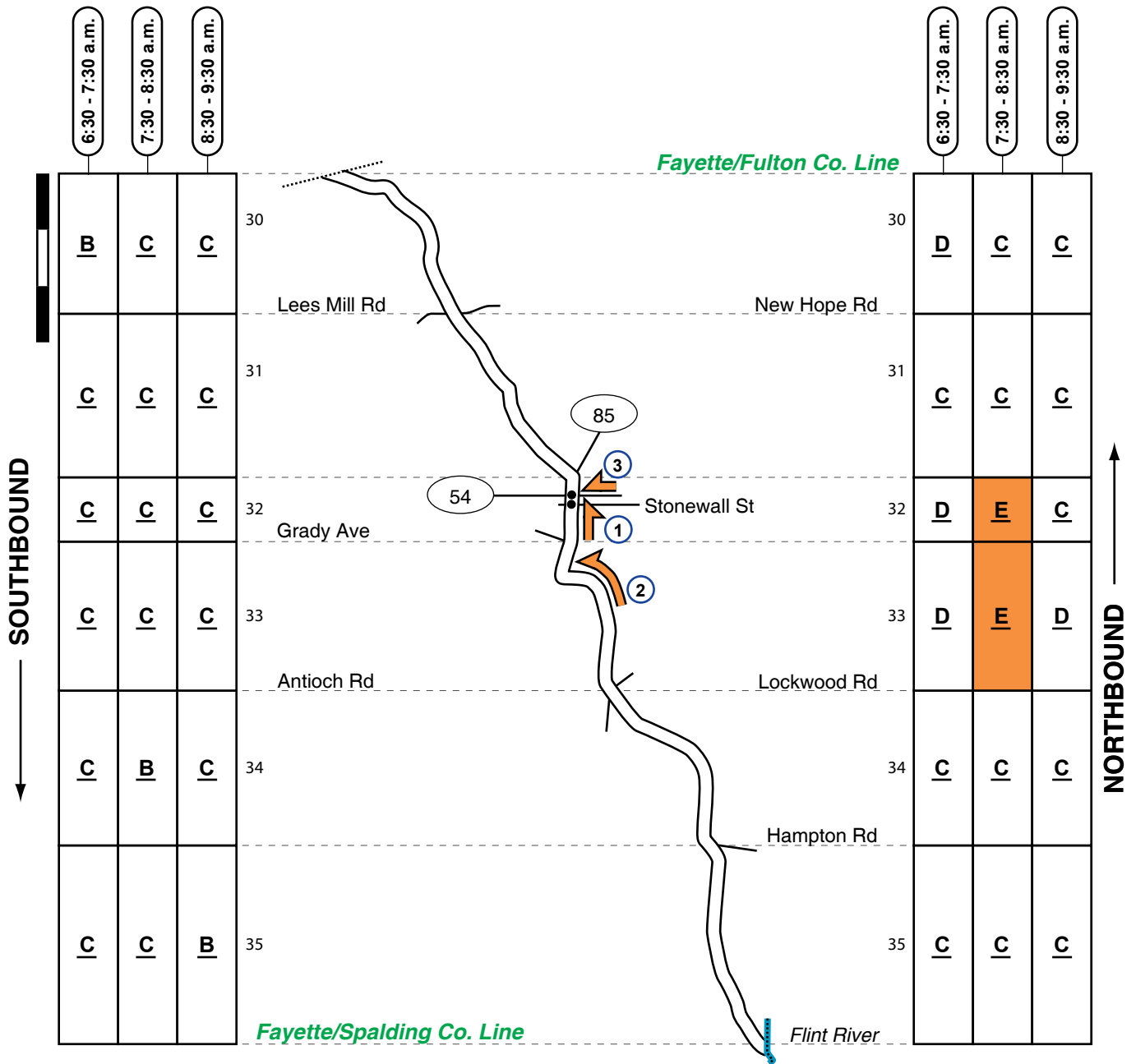
- ② **Signal Queue**
 Intersection: SR 8
 Frequency: Most observations before 6:00 p.m.
 Direction: Northbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: One

- ④ **Congested Cross Road**
 Intersection: SR 8
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 92 (FAYETTE COUNTY) - MORNING



- ① Signal Queues
Intersections: Stonewall St & SR 54
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

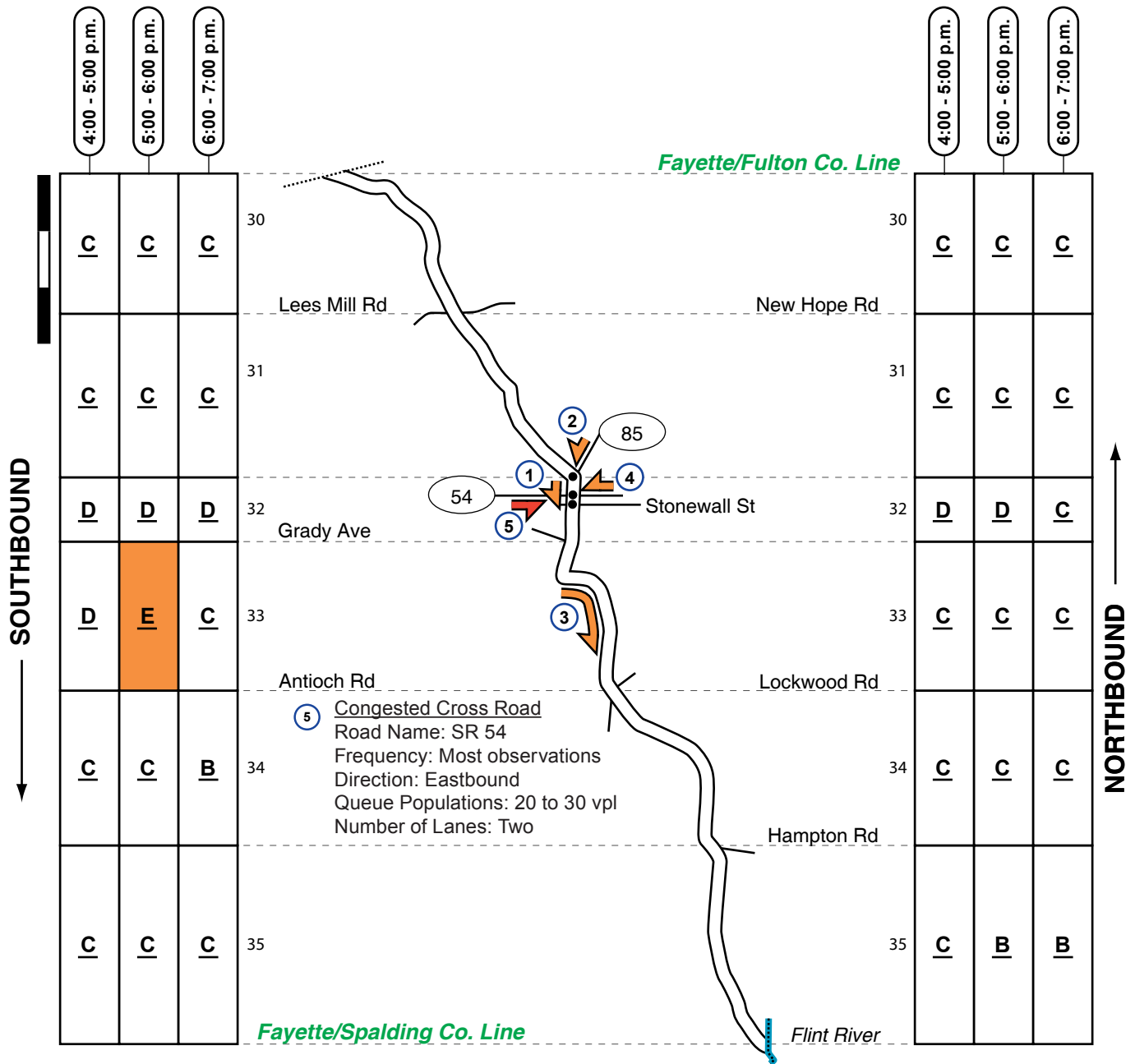
- ③ Congested Cross Road
Road Name: SR 54
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

- ② Platoons
Location: Between Lockwood Rd & Grady Ave
Frequency: Intermittent
Direction: Northbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

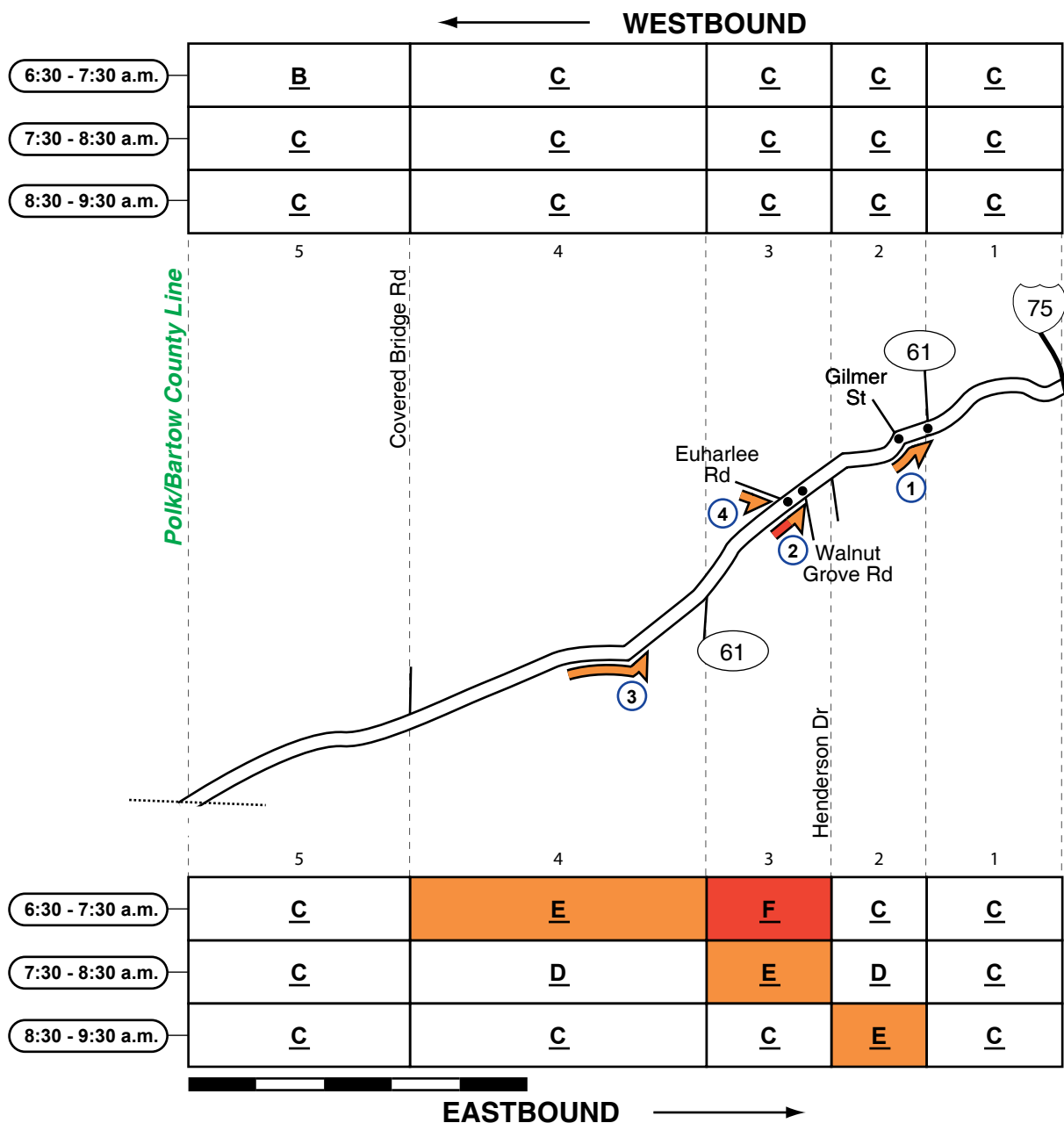
SR 92 (FAYETTE COUNTY) - EVENING



Traffic Quality Rating

A
Very LightB
LightC
ModerateD
HeavyE
CongestedF
Severe

SR 113 (BARTOW COUNTY) - MORNING



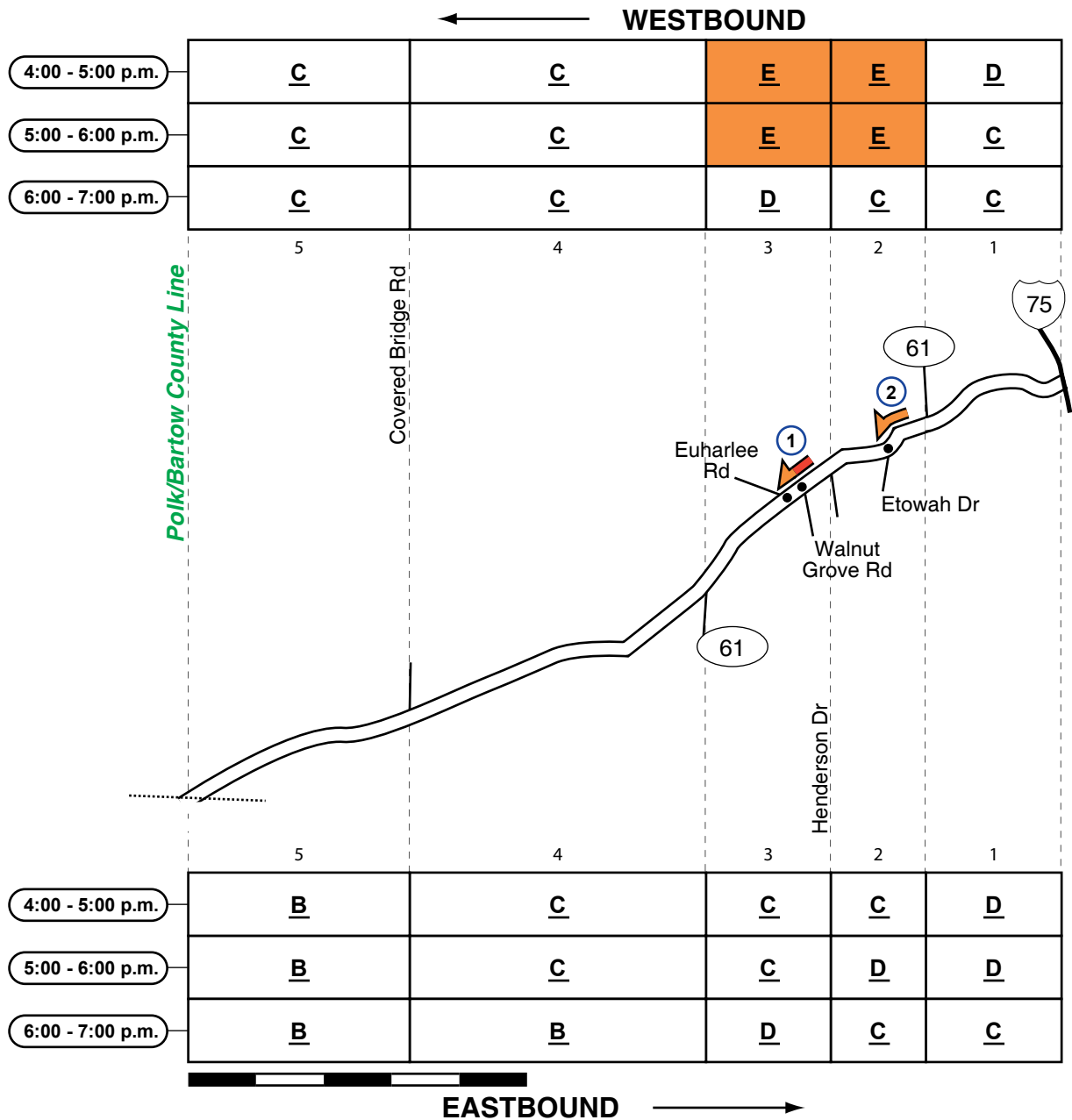
- ① Signal Queues
Intersections: SR 61 & Gilmer St
Frequency: Intermittently after 8:00 a.m.
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ② Signal Queue
Intersection: Euharlee Rd & Walnut Grove Rd
Frequency: Between 7:00 and 8:00 a.m.
Direction: Eastbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One

- ③ Platoons
Location: Between Covered Bridge Rd & SR 61
Frequency: Intermittent
Direction: Eastbound
Platoon Populations: 20 to 60 vpl
Number of Lanes: One
- ④ Congested Cross Road
Road Name: Euharlee Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 113 (BARTOW COUNTY) - EVENING



① Signal Queues

Intersection: Walnut Grove Rd
 Frequency: Most observations before 6:00 p.m.
 Direction: Westbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

Intersection: Euharlee Rd
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

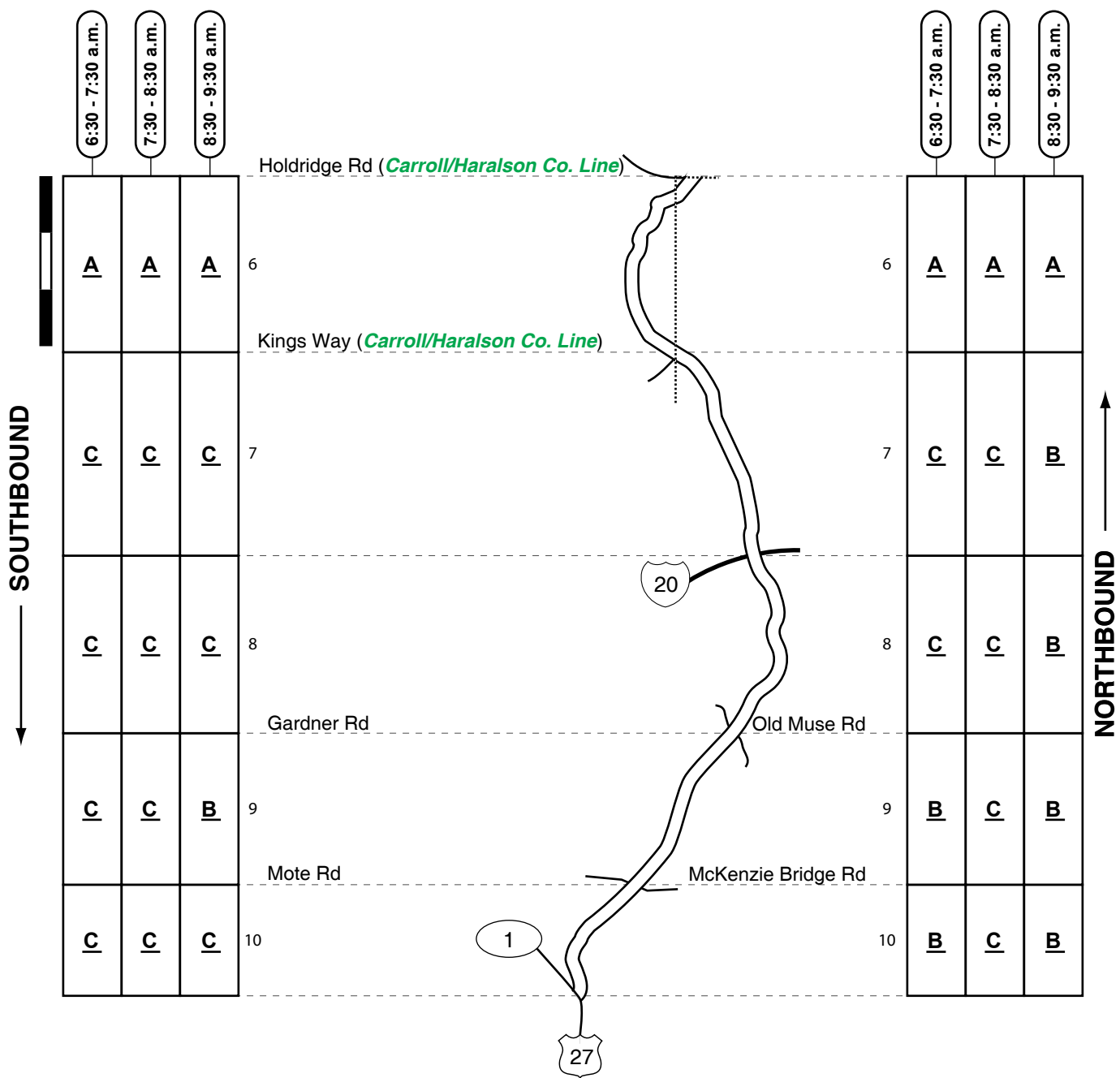
② Signal Queue

Intersection: Etowah Dr
 Frequency: Intermittently before 6:00 p.m.
 Direction: Westbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 113 (CARROLL & HARALSON COUNTIES) - MORNING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

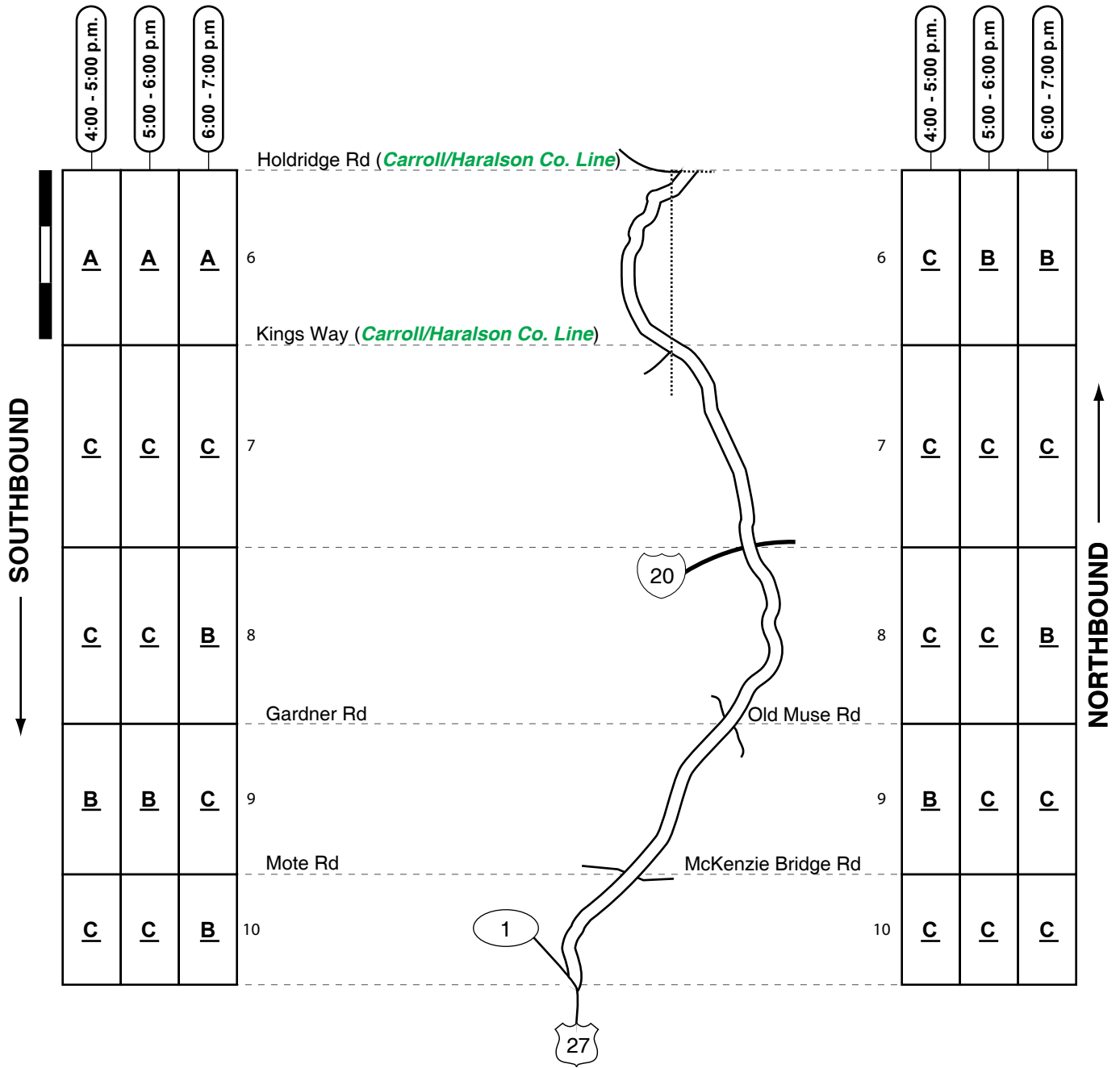
E

Congested

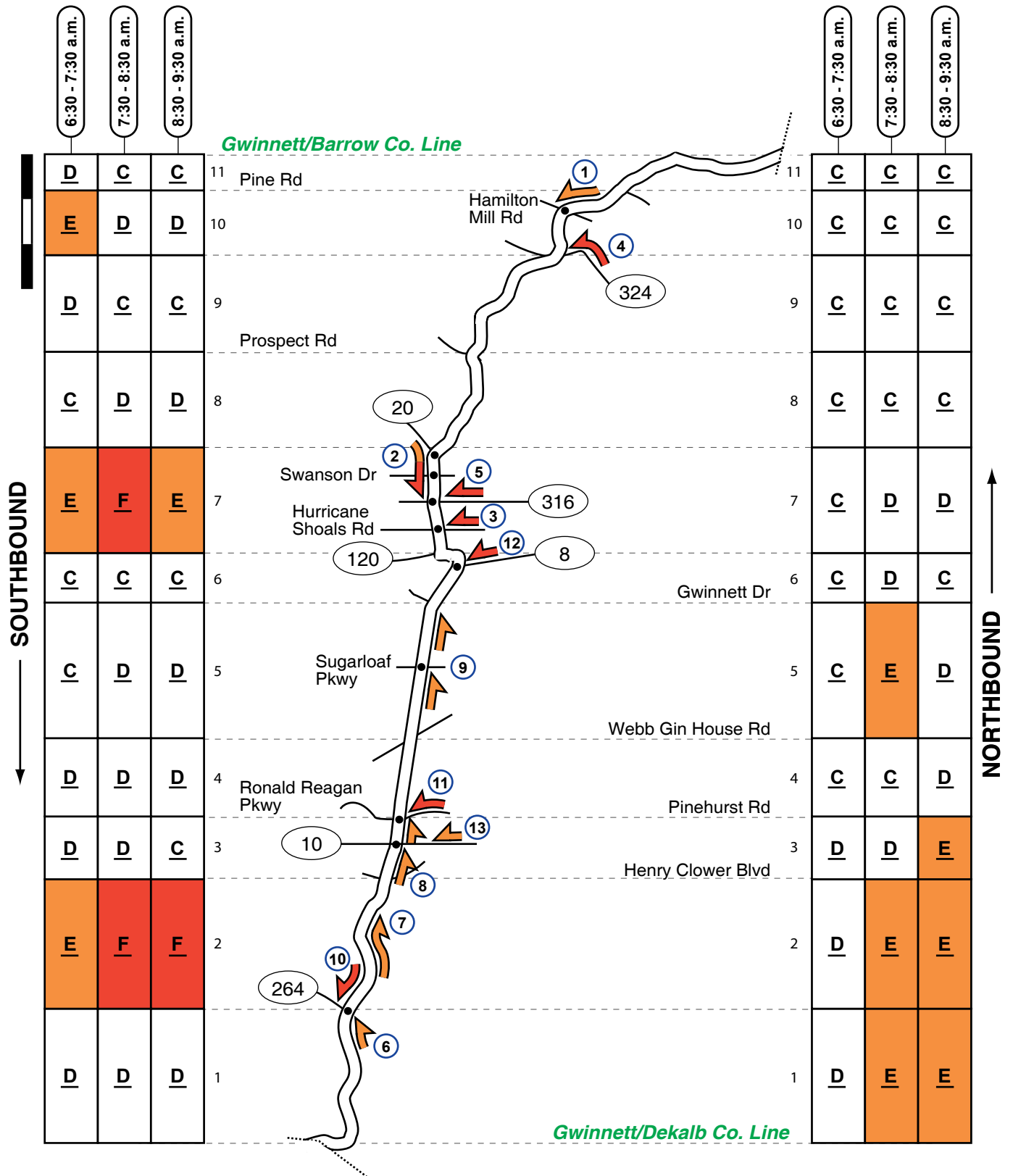
F

Severe

SR 113 (CARROLL & HARALSON COUNTIES) - EVENING



SR 124 (GWINNETT COUNTY) - MORNING



Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 124 (GWINNETT COUNTY) - MORNING

- ① Signal Queue
Intersection: Hamilton Mill Rd
Frequency: Early in survey period
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

- ② Signal Queues
Intersection: SR 316
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two

Intersection: Swanson Dr
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

- ③ Congested Cross Road
Road Name: Hurricane Shoals Rd
Frequency: Middle hour
Direction: Westbound
Queue Population: 20 to 60 vpl
Number of Lanes: One

- ④ Congested Cross Road
Road Name: SR 324
Frequency: Most observations
Direction: Westbound
Queue Population: 20 to 45 vpl
Number of Lanes: One

- ⑤ Congested Cross Road
Road Name: SR 316
Frequency: Most observations
Direction: Westbound
Queue Population: 20 to 75 vpl
Number of Lanes: Two

- ⑥ Signal Queue
Intersection: SR 264
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One

- ⑦ Platoons
Location: Between SR 264 & Henry Clower Blvd
Frequency: Most observations
Direction: Northbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One

- ⑧ Signal Queue
Intersection: SR 10
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Platoons

Location: Between SR 10 & Ronald Reagan Pkwy
Frequency: Intermittent
Direction: Northbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One

- ⑨ Signal Queue
Intersection: Sugarloaf Parkway
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Platoons

Location: Between Sugarloaf Pkwy & Gwinnett Dr
Frequency: Peak Period
Direction: Northbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One

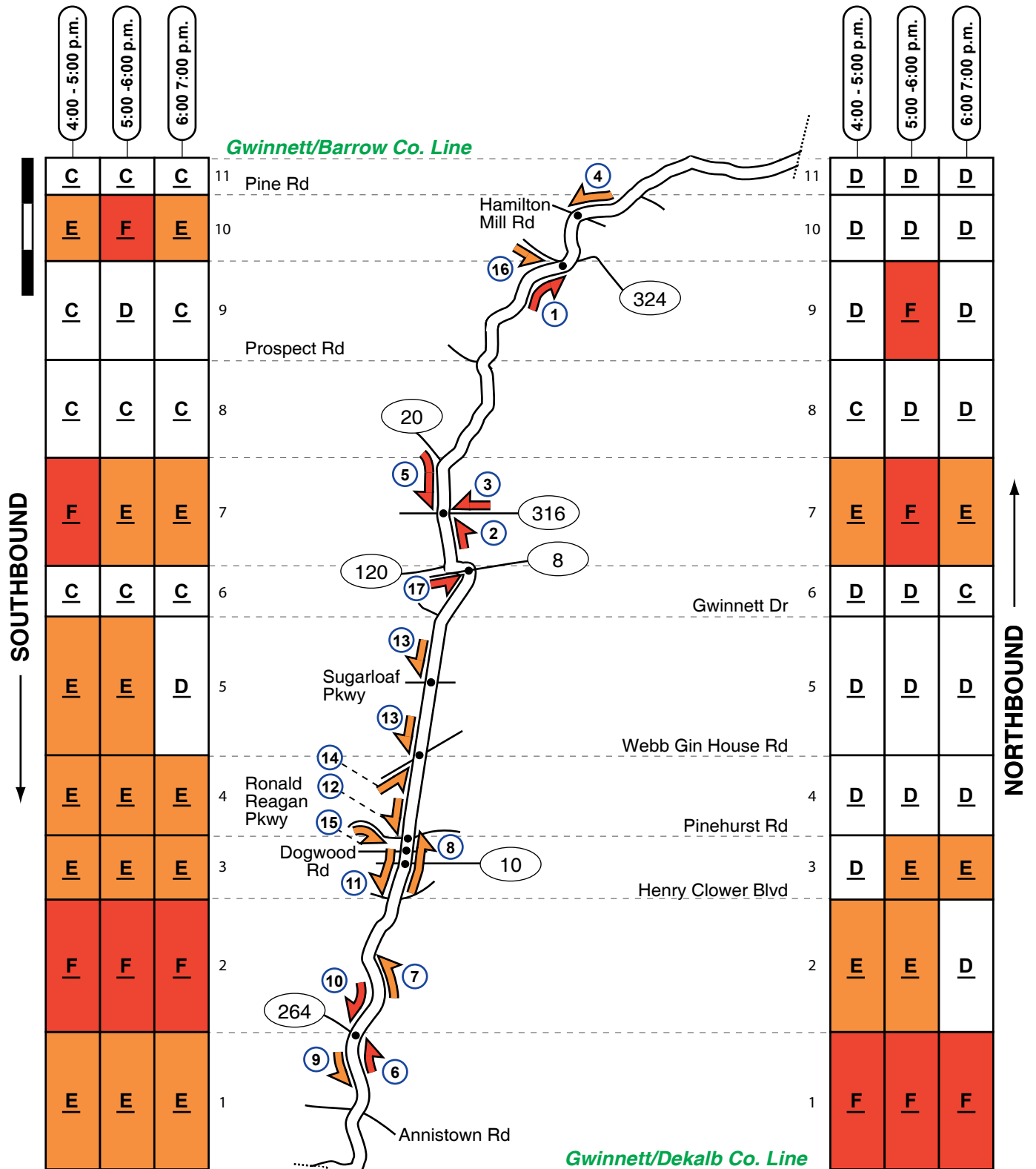
- ⑩ Signal Queue
Intersection: SR 264
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One

- ⑪ Congested Cross Road
Road Name: Pinehurst Rd
Frequency: Most observations
Direction: Westbound
Queue Population: 20 to 65 vpl
Number of Lanes: One

- ⑫ Congested Cross Road
Road Name: SR 8
Frequency: Most observations
Direction: Westbound
Queue Populations: 40 to 100 vpl
Number of Lanes: One
Note: Queue intermittently backed through upstream signal at Hosea Rd

- ⑬ Congested Cross Road
Road Name: SR 10
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

SR 124 (GWINNETT COUNTY) - EVENING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

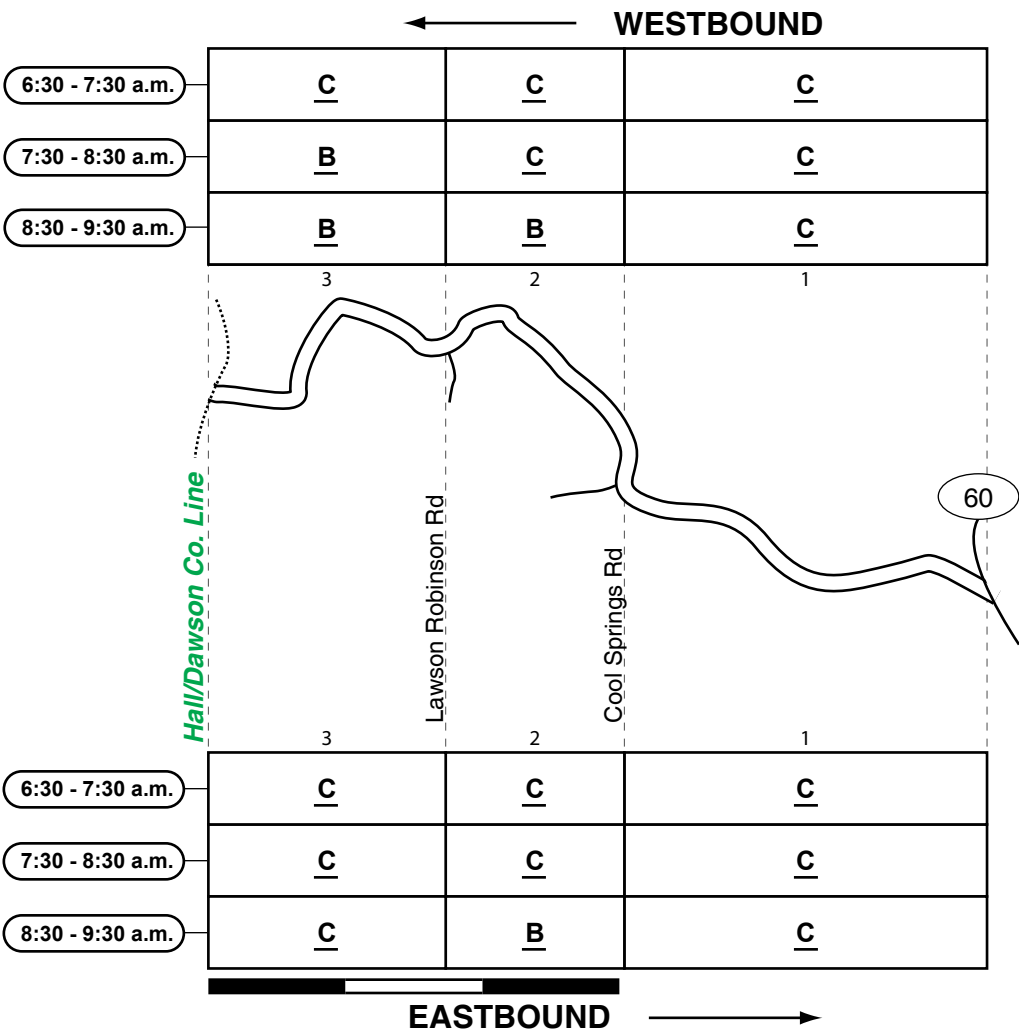
F

Severe

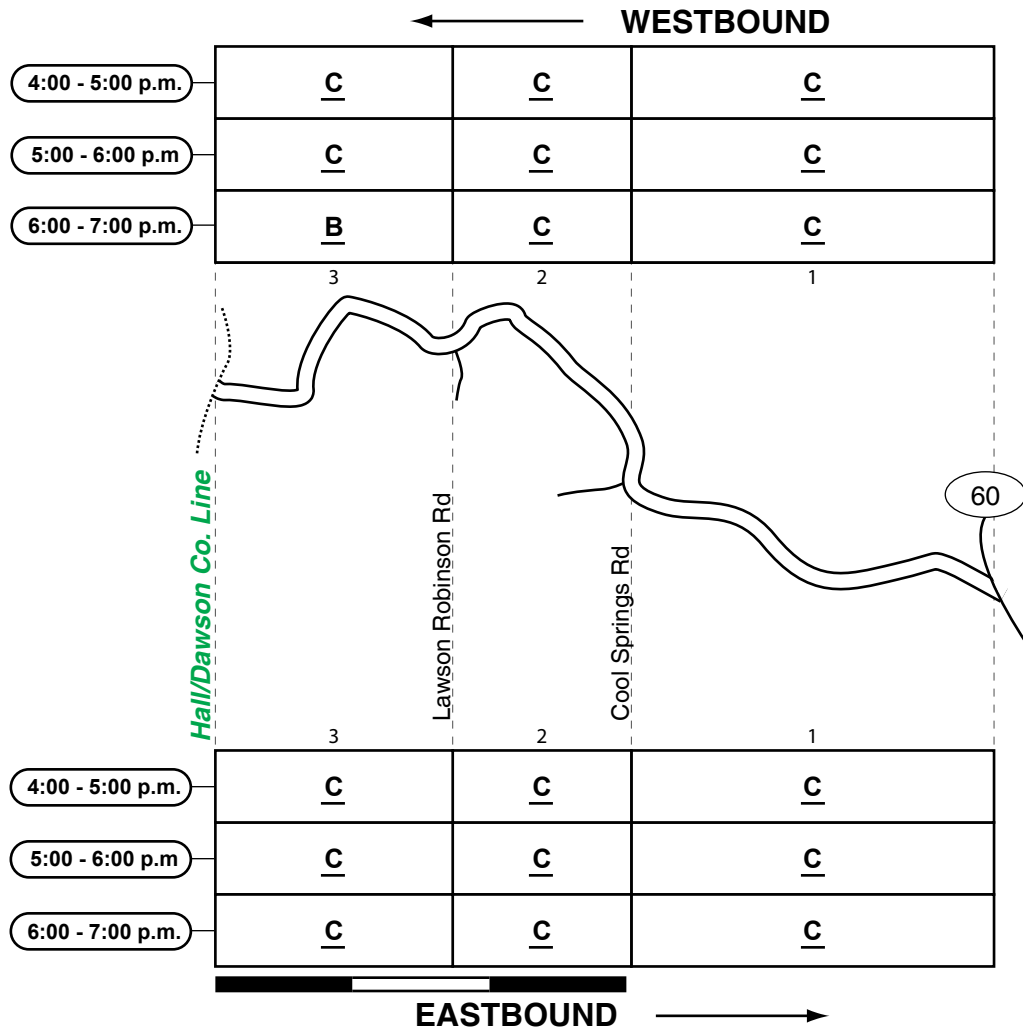
SR 124 (GWINNETT COUNTY) - EVENING

- ② Signal Queue
Intersection: SR 316
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two
- ③ Congested Cross Road
Road Name: SR 316
Frequency: Most observations
Direction: Westbound
Queue Population: 20 to 50 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: Hamilton Mill Rd
Frequency: Most observations between 4:30 and 6:30 p.m.
Direction: Southbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
- ⑤ Signal Queue
Intersection: SR 316
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 80 vpl
Number of Lanes: Two
Note: Queue backed through upstream signals at Swanson Dr & SR 20 (Peak Period)
- ⑥ Signal Queue
Intersection: SR 264
Frequency: Most observations
Direction: Northbound
Queue Populations: 25 to 75 vpl
Number of Lanes: One
- ⑦ Platoons
Location: Between SR 236 & Henry Clover Blvd
Frequency: Most observations
Direction: Northbound
Platoon Populations: 25 to 40 vpl
Number of Lanes: One
- ⑧ Platoons
Location: Vicinity of signals at SR 10, Dogwood Rd & Ronald Reagan Pkwy
Frequency: Middle hour
Direction: Northbound
Platoon Populations: 25 to 50 vpl
Number of Lanes: Two
- ⑨ Platoons
Location: Between SR 264 & Annistown Rd
Frequency: Most observations
Direction: Southbound
Platoon Populations: 25 to 50 vpl
Number of Lanes: One
- ⑩ Signal Queue
Intersection: SR 264
Frequency: Most observations
Direction: Southbound
Queue Populations: 30 to 90 vpl
Number of Lanes: One
- ⑪ Platoons
Location: Vicinity of signals at SR 10 & Dogwood Rd
Frequency: Most observations
Direction: Southbound
Platoon Populations: 25 to 40 vpl
Number of Lanes: Two
- ⑫ Signal Queue
Intersection: Ronald Reagan Pkwy
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 35 vpl
Number of Lanes: Two
- ⑬ Signal Queues
Intersections: Sugarloaf Pkwy & Webb Gin Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑭ Congested Cross Road
Road Name: Webb Gin House Rd
Frequency: Intermittent
Direction: Eastbound
Queue Population: 20-30 vpl
Number of Lanes: One
- ⑮ Congested Cross Road
Road Name: Ronald Reagan Pkwy
Frequency: Most observations
Direction: Eastbound
Queue Population: 20-40 vpl
Number of Lanes: Two
Note: Also congestion at upstream signals at Presidential Circle and Medical Way
- ⑯ Congested Cross Road
Intersection: SR 324
Frequency: Most observations after 5:00 p.m.
Direction: Eastbound
Queue Populations: 30 to 40 vpl
Number of Lanes: One
- ⑰ Congested Cross Road
Road Name: SR 8
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One

SR 136 (HALL COUNTY) - MORNING



SR 136 (HALL COUNTY) - EVENING



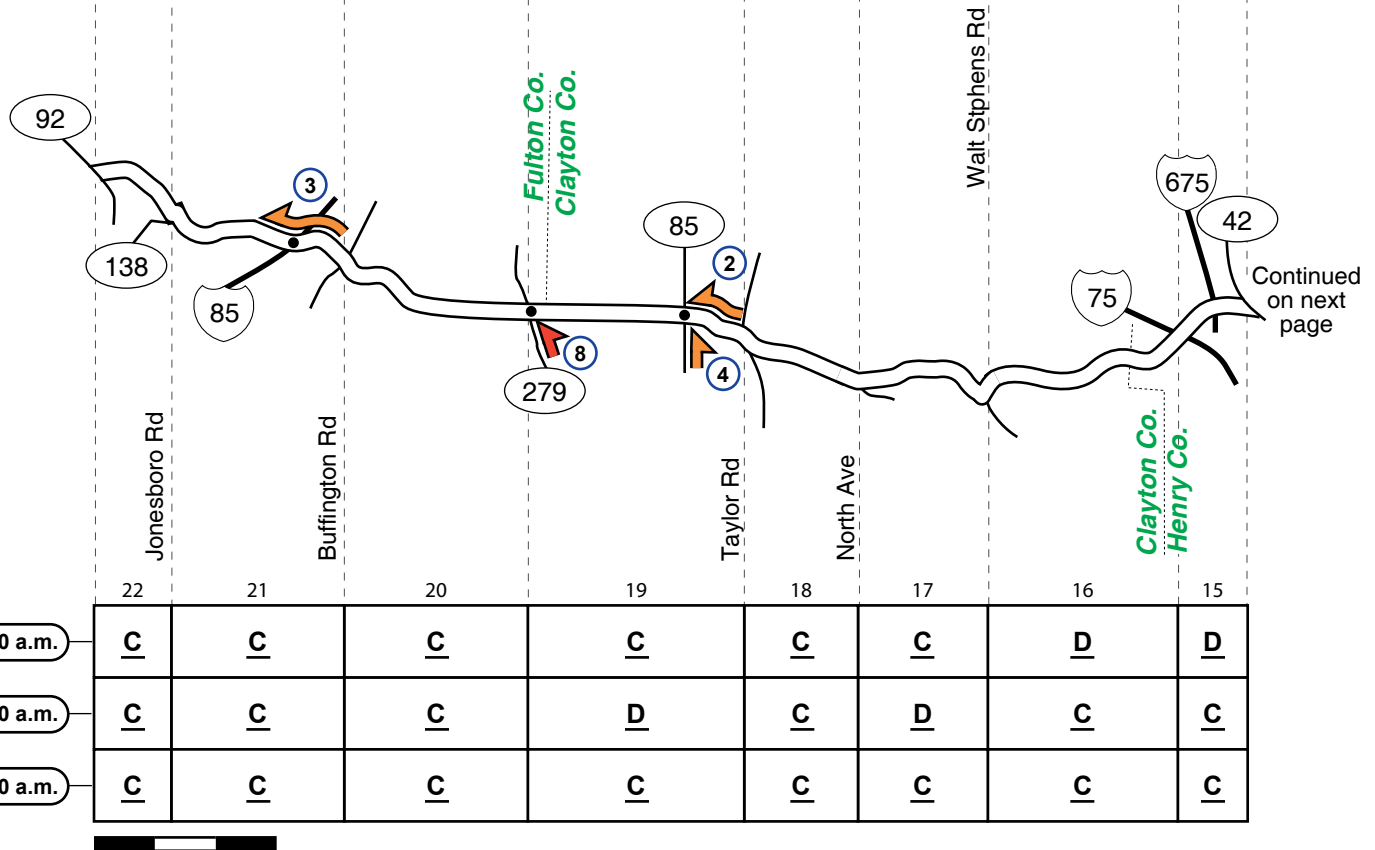
Traffic Quality Legend

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 138 (FULTON/CLAYTON & HENRY COUNTIES) - MORNING

← WESTBOUND

6:30 - 7:30 a.m.	<u>C</u>	<u>D</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>D</u>
7:30 - 8:30 a.m.	<u>C</u>	E	<u>D</u>	E	<u>D</u>	<u>D</u>	<u>C</u>	<u>D</u>
8:30 - 9:30 a.m.	<u>C</u>	<u>D</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>D</u>
	22	21	20	19	18	17	16	15



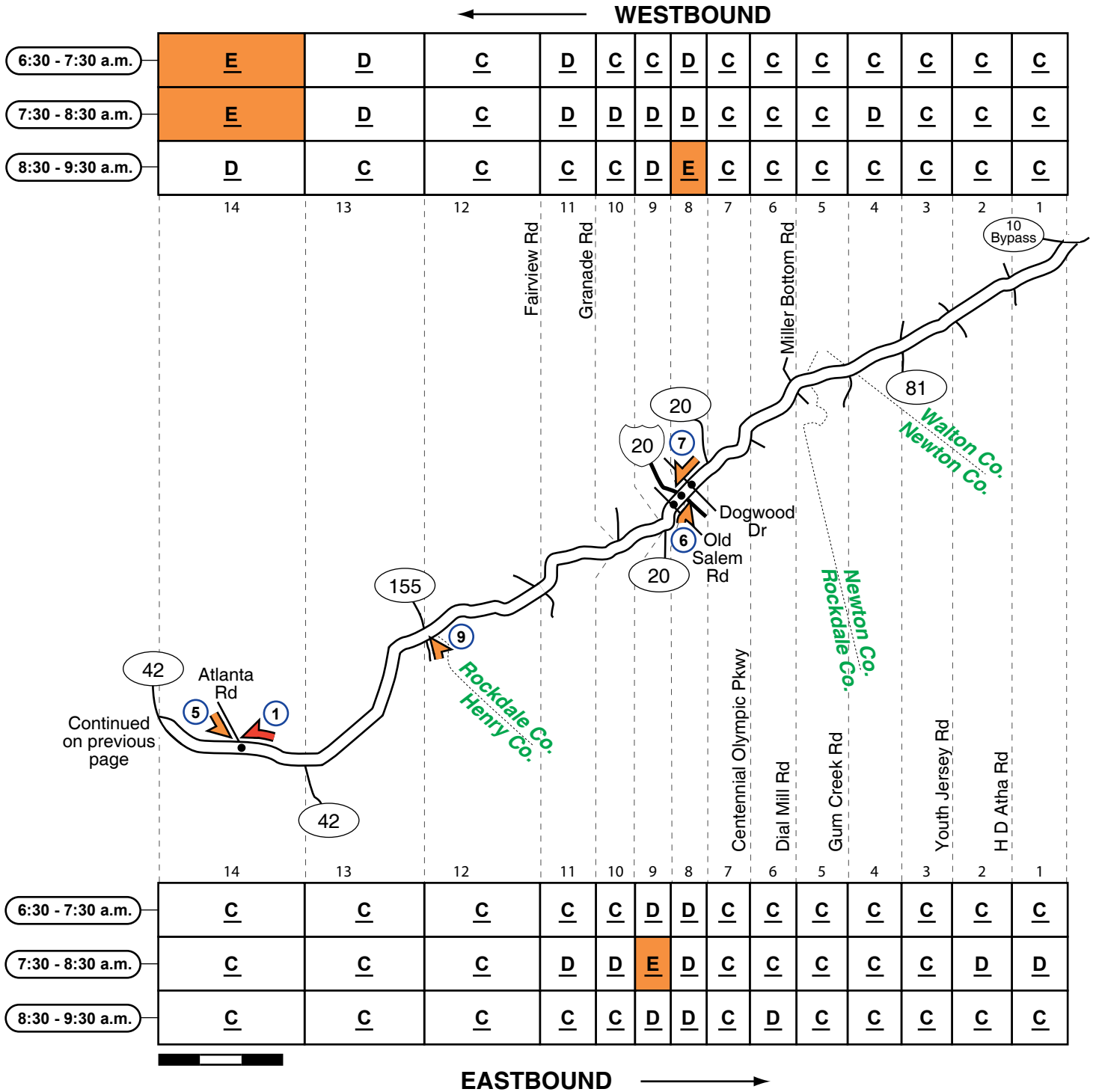
EASTBOUND →

- ① **Signal Queue**
Intersection: Atlanta Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ② **Signal Queue**
Intersection: SR 85
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ③ **Platoons**
Location: Vicinity of the signals at I-85
Frequency: Intermittent
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ④ **Congested Cross Road**
Road Name: SR 85
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- ⑤ **Congested Cross Road**
Road Name: Atlanta Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑥ **Signal Queues**
Intersections: I-20 & Old Salem Rd
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 138 (HENRY/ROCKDALE/NEWTON & WALTON COUNTIES) - MORNING



7 Signal Queues
 Intersections: I-20 & Dogwood Dr
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

8 Congested Cross Road
 Road Name: SR 279
 Frequency: Most observations
 Direction: Northbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: Two
 Note: While two thru-lanes are available at the signal, the queue typically extended back into the one lane approach on SR 279 (peak period).

9 Congested Cross Road
 Road Name: SR 155
 Frequency: Middle hour
 Direction: Northbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: One

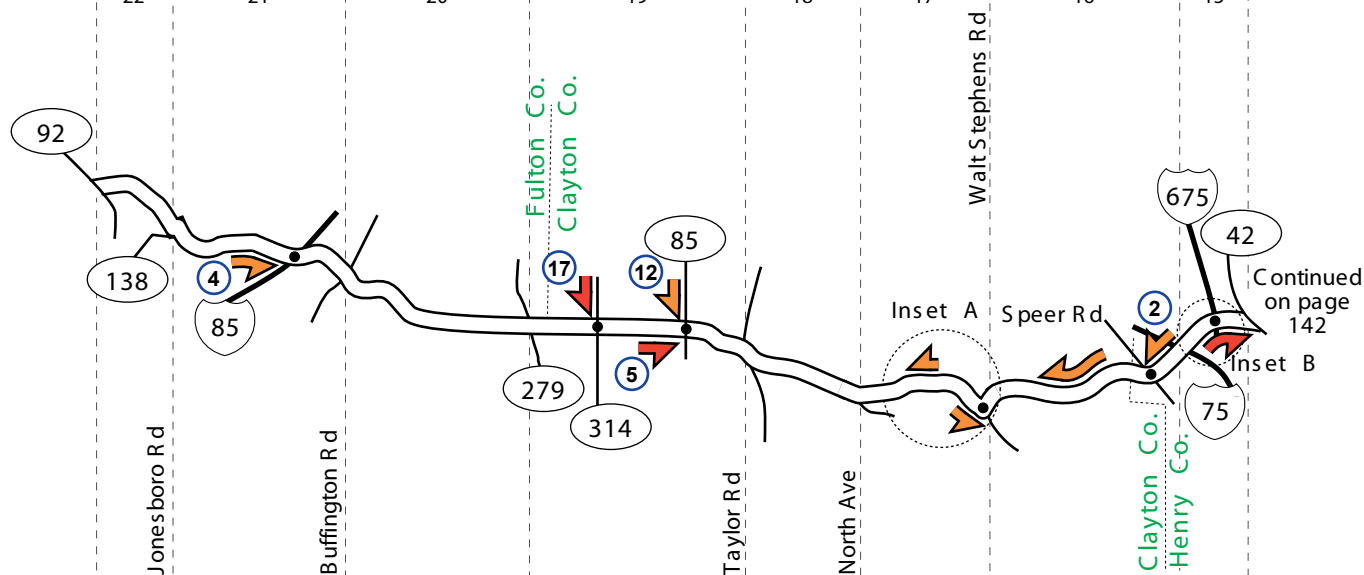
Traffic Quality Legend

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 138 (FULTON/CLAYTON & HENRY COUNTIES) - EVENING

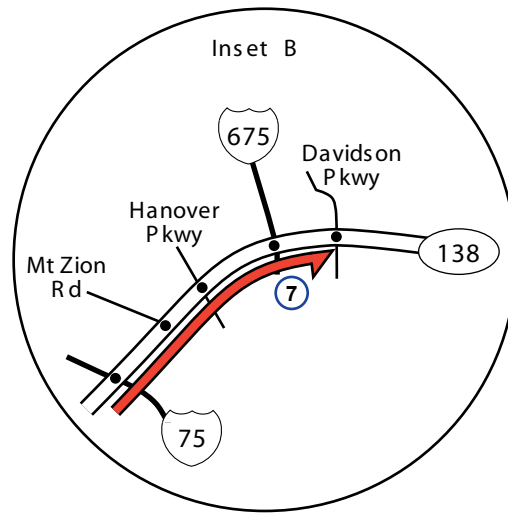
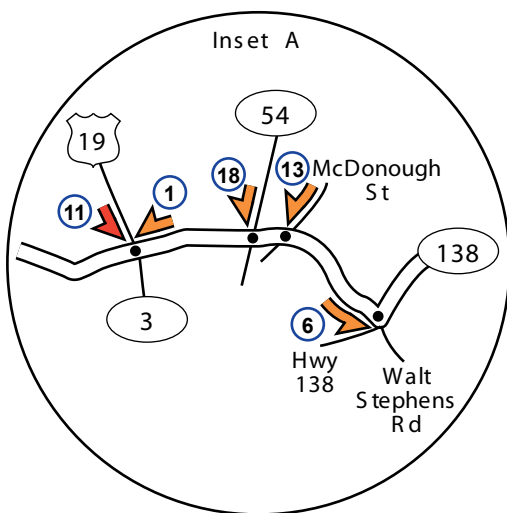
← WESTBOUND

4:00 - 5:00 p.m.	<u>C</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>D</u>	<u>E</u>	<u>C</u>
5:00 - 6:00 p.m.	<u>C</u>	<u>D</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>E</u>	<u>E</u>	<u>D</u>
6:00 - 7:00 p.m.	<u>C</u>	<u>D</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>D</u>
	22	21	20	19	18	17	16	15



4:00 - 5:00 p.m.	<u>C</u>	<u>D</u>	<u>E</u>	<u>E</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>E</u>
5:00 - 6:00 p.m.	<u>C</u>	<u>D</u>	<u>C</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>E</u>
6:00 - 7:00 p.m.	<u>C</u>	<u>E</u>	<u>D</u>	<u>D</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
	22	21	20	19	18	17	16	15

→ EASTBOUND



Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

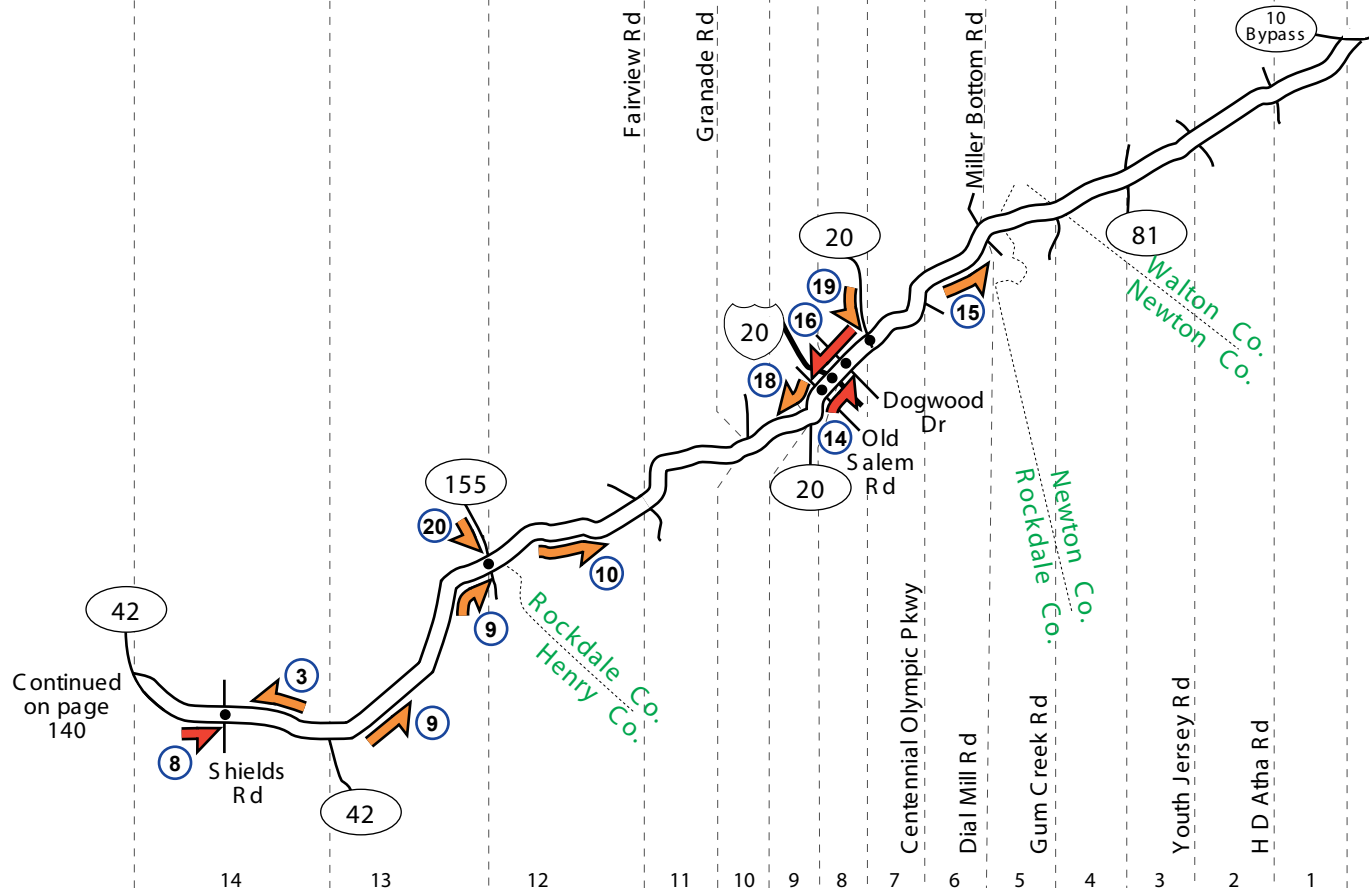
SR 138 (HENRY/ROCKDALE/NEWTON & WALTON COUNTIES) - EVENING

- | | |
|--|---|
| <p>① <u>Signal Queue</u>
Intersection: SR 3
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two</p> | <p>⑪ <u>Congested Cross Road</u>
Road Name: SR 3 / US 19
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two</p> |
| <p>② <u>Signal Queue</u>
Intersection: Speer Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One</p> | <p>⑫ <u>Congested Cross Road</u>
Road Name: SR 85
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 35 vpl
Number of Lanes: Two</p> |
| <p>④ <u>Signal Queue</u>
Intersection: I-85
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two</p> | <p>⑬ <u>Congested Cross Road</u>
Road Name: McDonough St
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One</p> |
| <p>⑤ <u>Signal Queue</u>
Intersection: SR 85
Frequency: Early in the survey period
Direction: Eastbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two</p> | <p>⑰ <u>Congested Cross Rd</u>
Road Name: SR 314
Frequency: Most observations before 6:00 p.m.
Direction: Southbound
Queue Populations: 20 to 45 vpl
Number of Lanes: One</p> |
| <p>⑥ <u>Signal Queue</u>
Intersection: Highway 138
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
Note: Head of queue in left-turn bay at signal; queue backed into left lane of SR 138 approaching the signal.</p> | <p>⑱ <u>Congested Cross Rd</u>
Road Name: SR 54
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two</p> |
| <p>⑦ <u>Signal Queues</u>
Intersections: I-75, Mt Zion Rd, Hanover Pkwy, I-675 & Davidson Pkwy
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 100 vpl
Number of Lanes: Two
Note: In some cases, a mostly continuous queue was found between I-75 and Davidson Pkwy</p> | |

SR 138 (FULTON/CLAYTON/HENRY & ROCKDALE COUNTIES) - EVENING

← WESTBOUND

4:00 - 5:00 p.m.	<u>D</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>E</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>
5:00 - 6:00 p.m.	<u>D</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>D</u>	<u>E</u>	<u>E</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>D</u>	<u>C</u>
6:00 - 7:00 p.m.	<u>E</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>D</u>
	14	13	12	11	10	9	8	7	6	5	4	3	2	1



4:00 - 5:00 p.m.	<u>E</u>	<u>E</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>E</u>	<u>E</u>	<u>C</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>
5:00 - 6:00 p.m.	<u>E</u>	<u>E</u>	<u>C</u>	<u>D</u>	<u>D</u>	<u>E</u>	<u>E</u>	<u>D</u>	<u>E</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>C</u>	<u>C</u>
6:00 - 7:00 p.m.	<u>E</u>	<u>E</u>	<u>C</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>D</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>C</u>
	14	13	12	11	10	9	8	7	6	5	4	3	2	1

EASTBOUND →

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 138 (ROCKDALE/NEWTON & WALTON COUNTIES) - EVENING

③ Platoons

Location: Between SR 42 intersections
Frequency: Intermittent
Direction: Westbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: Two

⑩ Signal Queues

Intersections: Dogwood Dr, I-20 & Old Salem Rd
Frequency: Most observations before 6:00 p.m.
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

⑧ Signal Queue

Intersection: Shields Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two

⑩ Platoons

Location: Between I-20 & SR 20
Frequency: Most observations before 6:00 p.m.
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Three

⑨ Signal Queue

Intersection: SR 155
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

⑩ Congested Cross Road

Road Name: SR 20
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

Platoons

Location: Between SR 42 & SR 155
Frequency: Most observations
Direction: Eastbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One

⑩ Congested Cross Road

Road Name: SR 155
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

⑩ Platoons

Location: Between SR 155 & Fairview Rd
Frequency: Intermittent
Direction: Eastbound
Platoon Populations: 25 to 40 vpl
Number of Lanes: One

⑭ Signal Queues

Intersections: Old Salem Rd, I-20 & Dogwood Dr
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

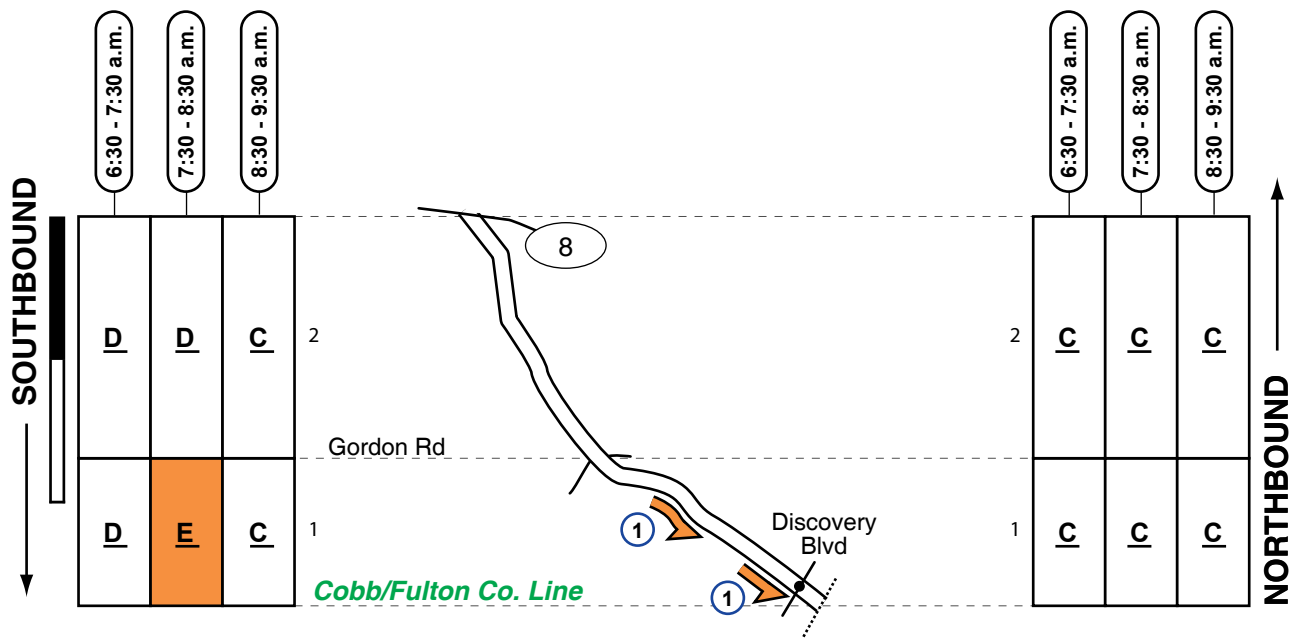
⑮ Platoons

Location: Between Centennial Olympic Pkwy & Dial Mill Rd
Frequency: Middle hour
Direction: Eastbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

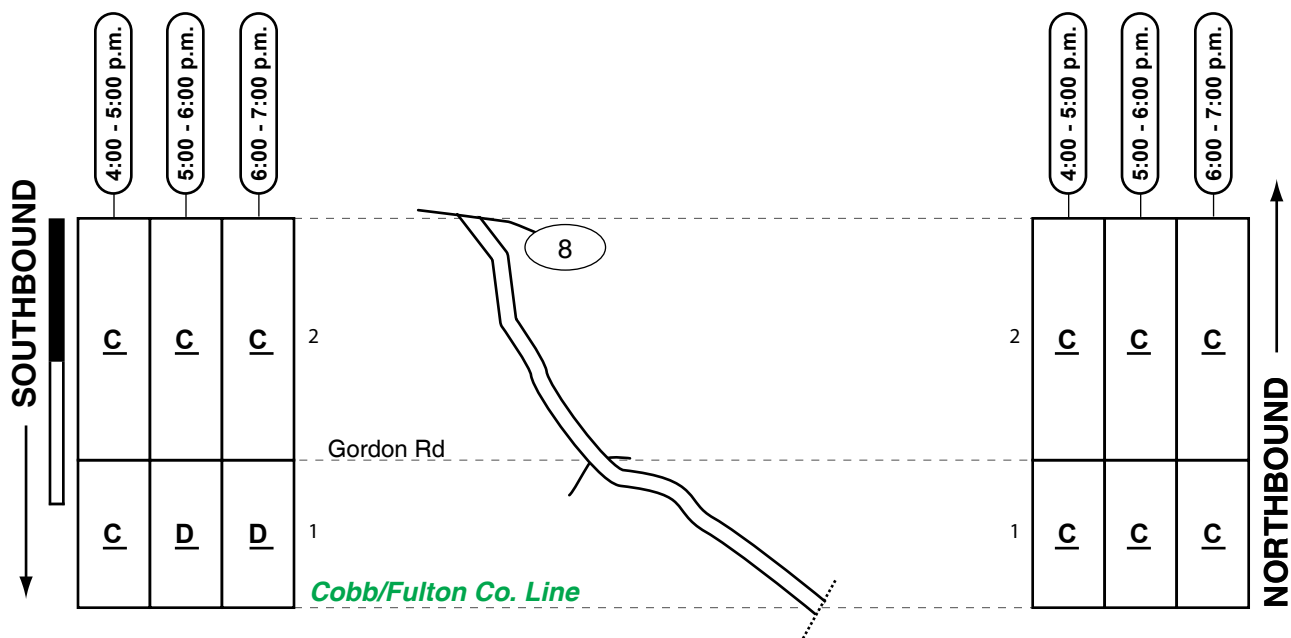
SR 139 (COBB COUNTY) - MORNING



- 1

Platoons
 Location: Between Gordon Rd & Cobb/Fulton Co. Line & vicinity of the signal at Discovery Blvd
 Frequency: Most observations between 7:00 and 8:30 a.m.
 Direction: Southbound
 Platoon Populations: 25 to 45 vpl
 Number of Lanes: Two

SR 139 (COBB COUNTY) - EVENING



Traffic Quality Rating

A
Very Light

B
Light

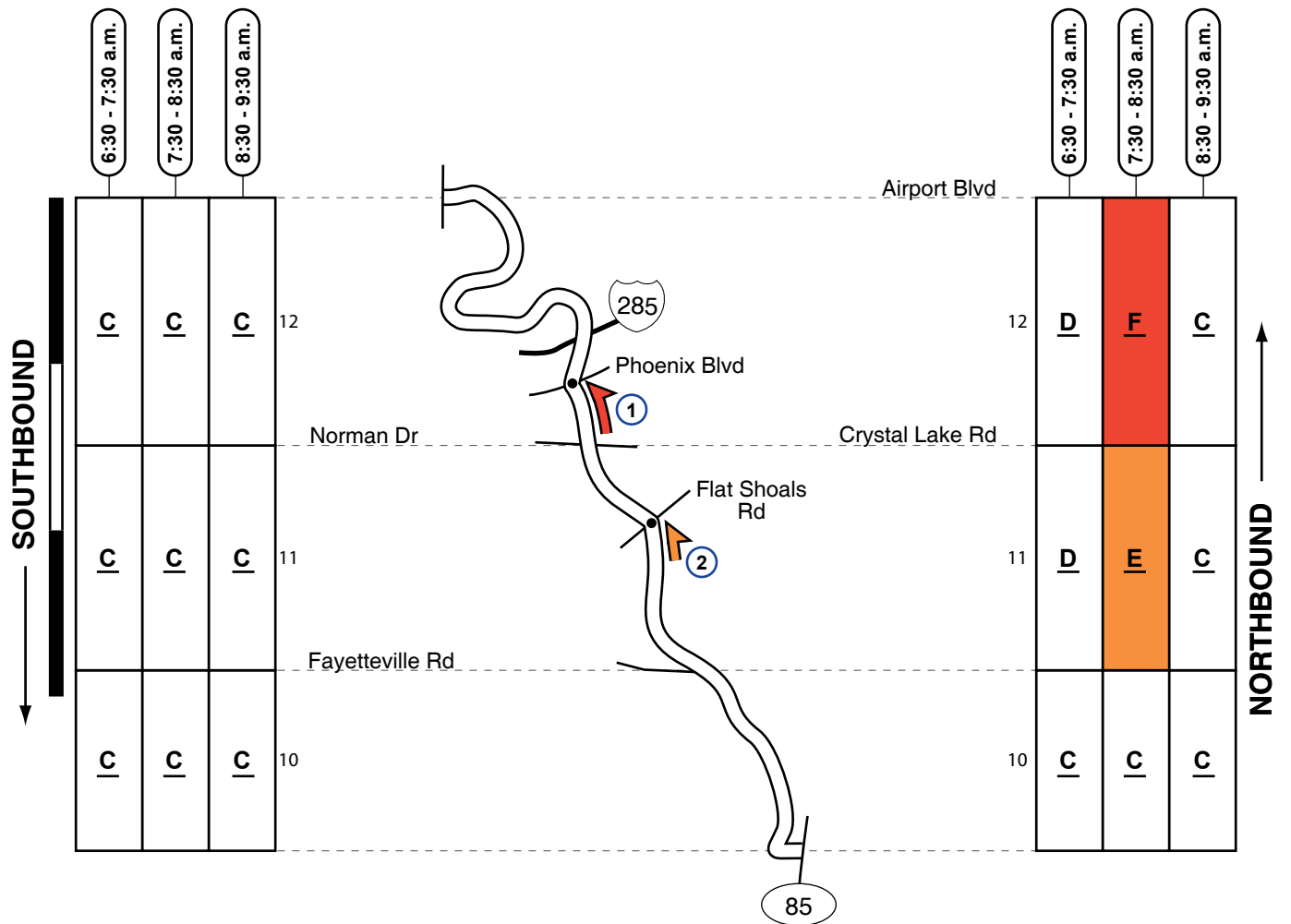
C
Moderate

D
Heavy

E
Congested

F
Severe

SR 139 (CLAYTON COUNTY) - MORNING



- 1

Signal Queue

Intersection: Phoenix Blvd

Frequency: Most observations before 8:30 a.m.

Direction: Northbound

Queue Populations: 20 to 55 vpl

Number of Lanes: Two
- 2

Signal Queue

Intersection: Flat Shoals Rd

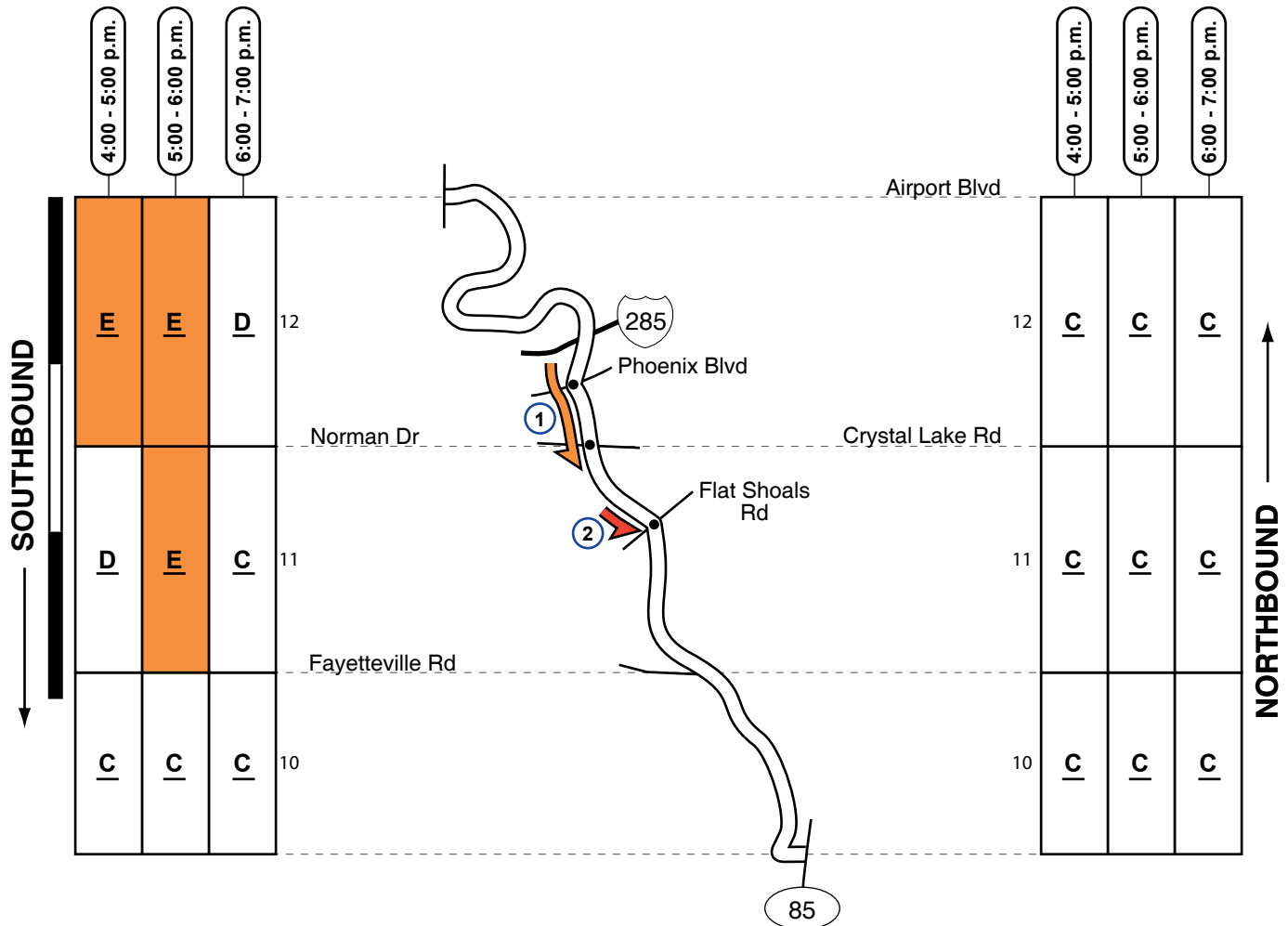
Frequency: Middle hour

Direction: Northbound

Queue Populations: 20 to 40 vpl

Number of Lanes: Two

SR 139 (CLAYTON COUNTY) - EVENING



- ① **Platoons**
 Location: Between I-285 & Norman Dr
 Frequency: Most observations before 6:00 p.m.
 Direction: Southbound
 Platoon Populations: 25 to 30 vpl
 Number of Lanes: Two

- ② **Signal Queue**
 Intersection: Flat Shoals Rd
 Frequency: Middle hour
 Direction: Southbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: Two

Traffic Quality Rating

A
Very Light

B
Light

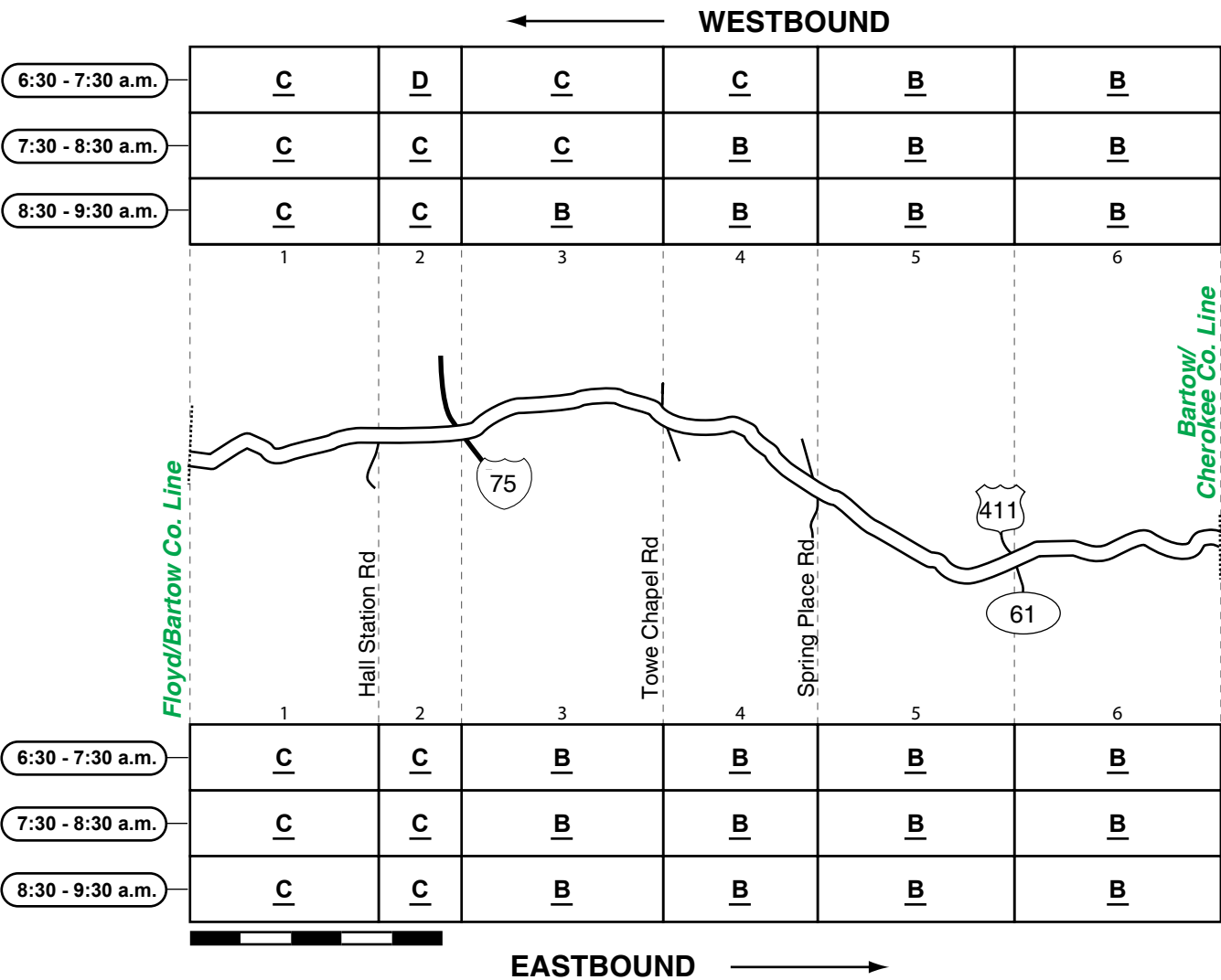
C
Moderate

D
Heavy

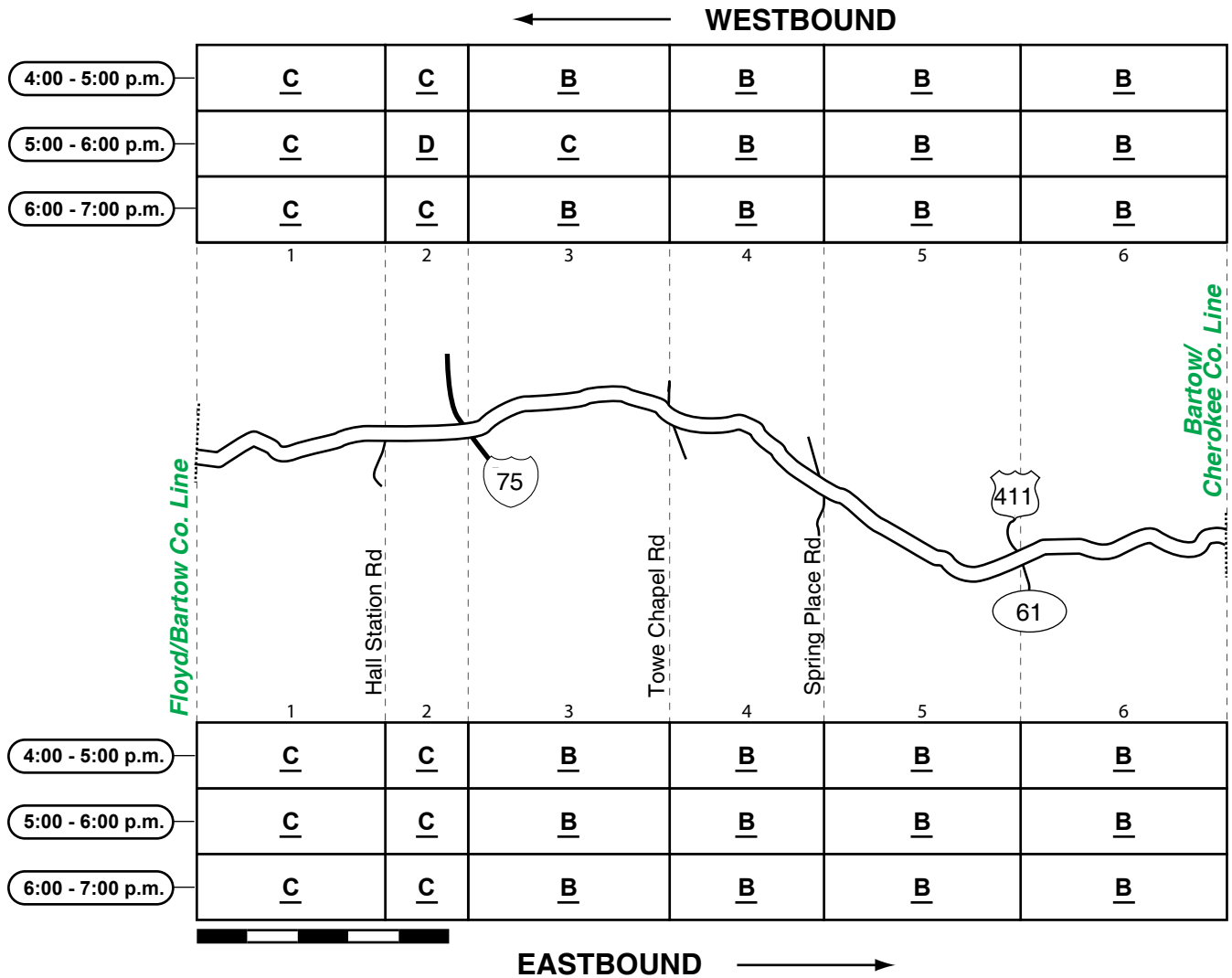
E
Congested

F
Severe

SR 140 (BARTOW COUNTY) - MORNING



SR 140 (BARTOW COUNTY) - EVENING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

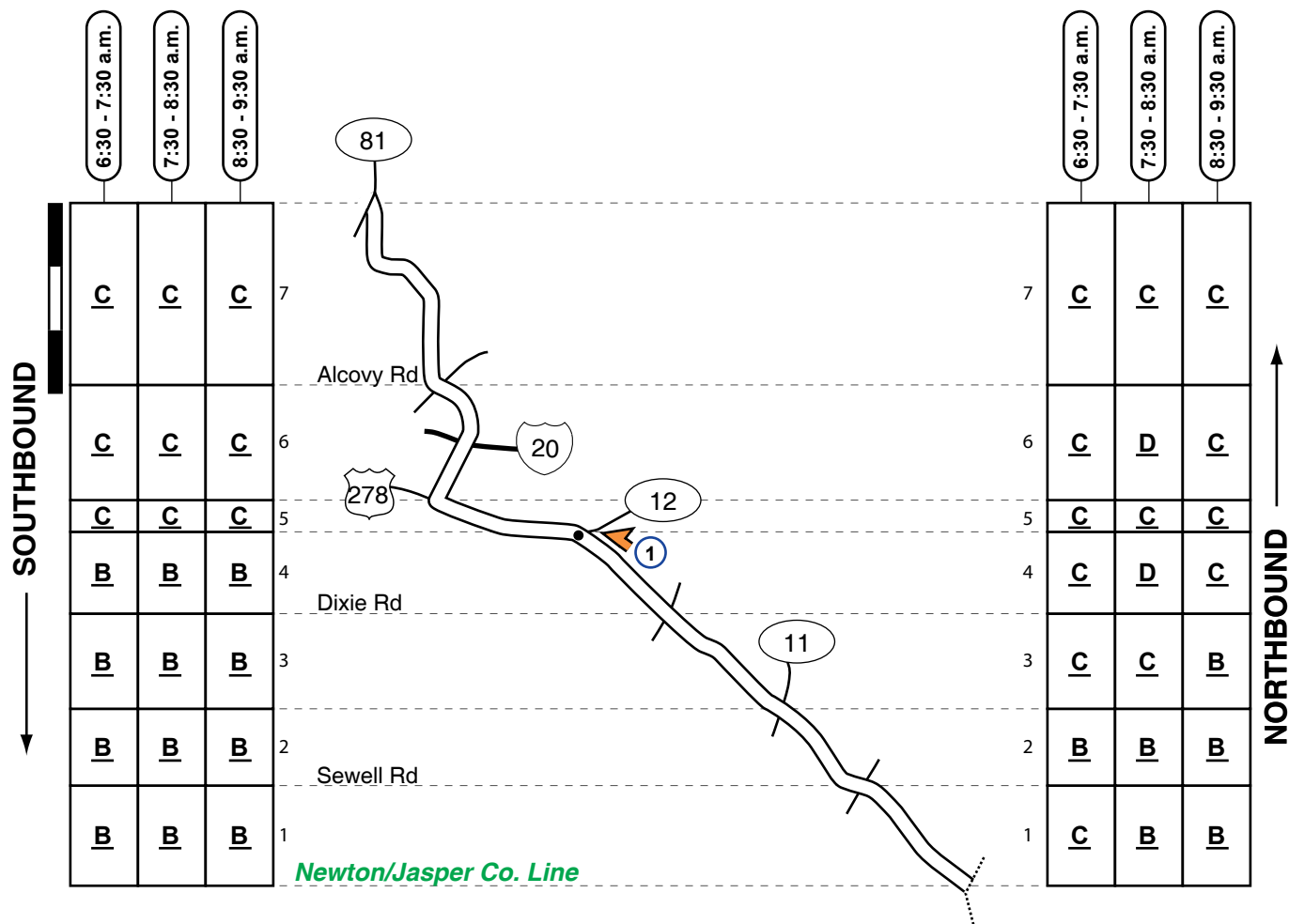
E

Congested

F

Severe

SR 142 (NEWTON COUNTY) - MORNING

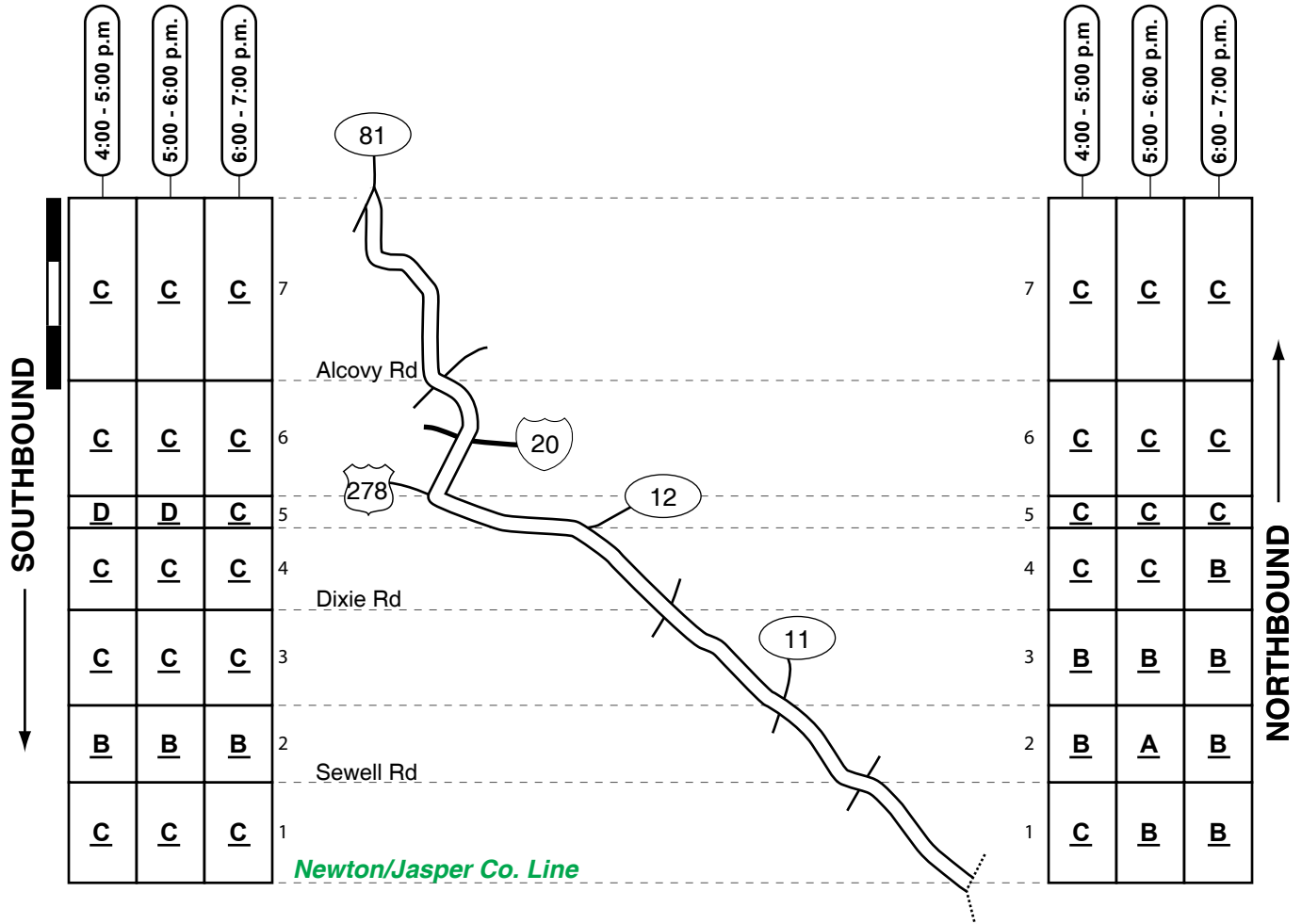


- ① **Signal Queue**
 Intersection: SR 12
 Frequency: Intermittent during middle hour
 Direction: Northbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

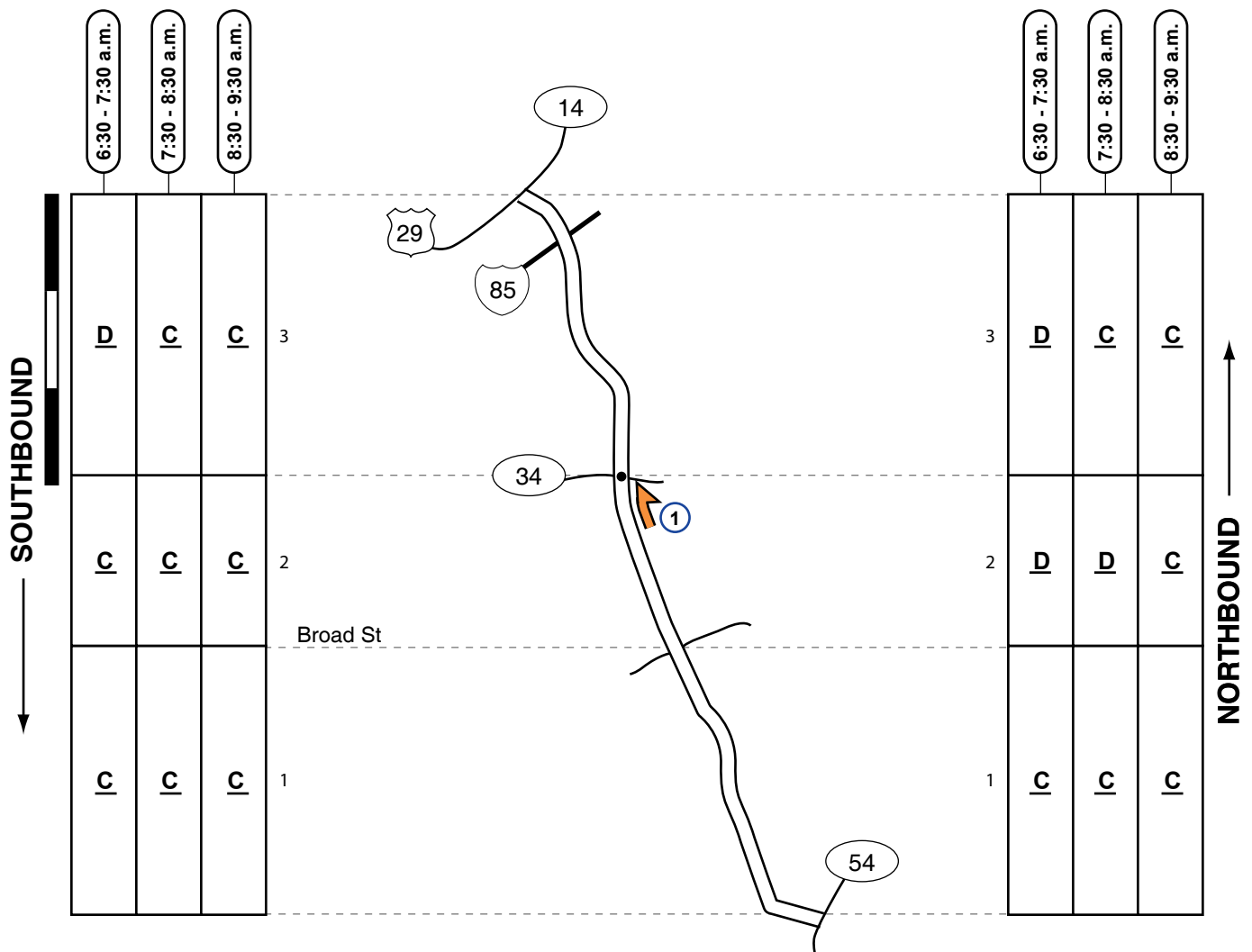
Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 142 (NEWTON COUNTY) - EVENING



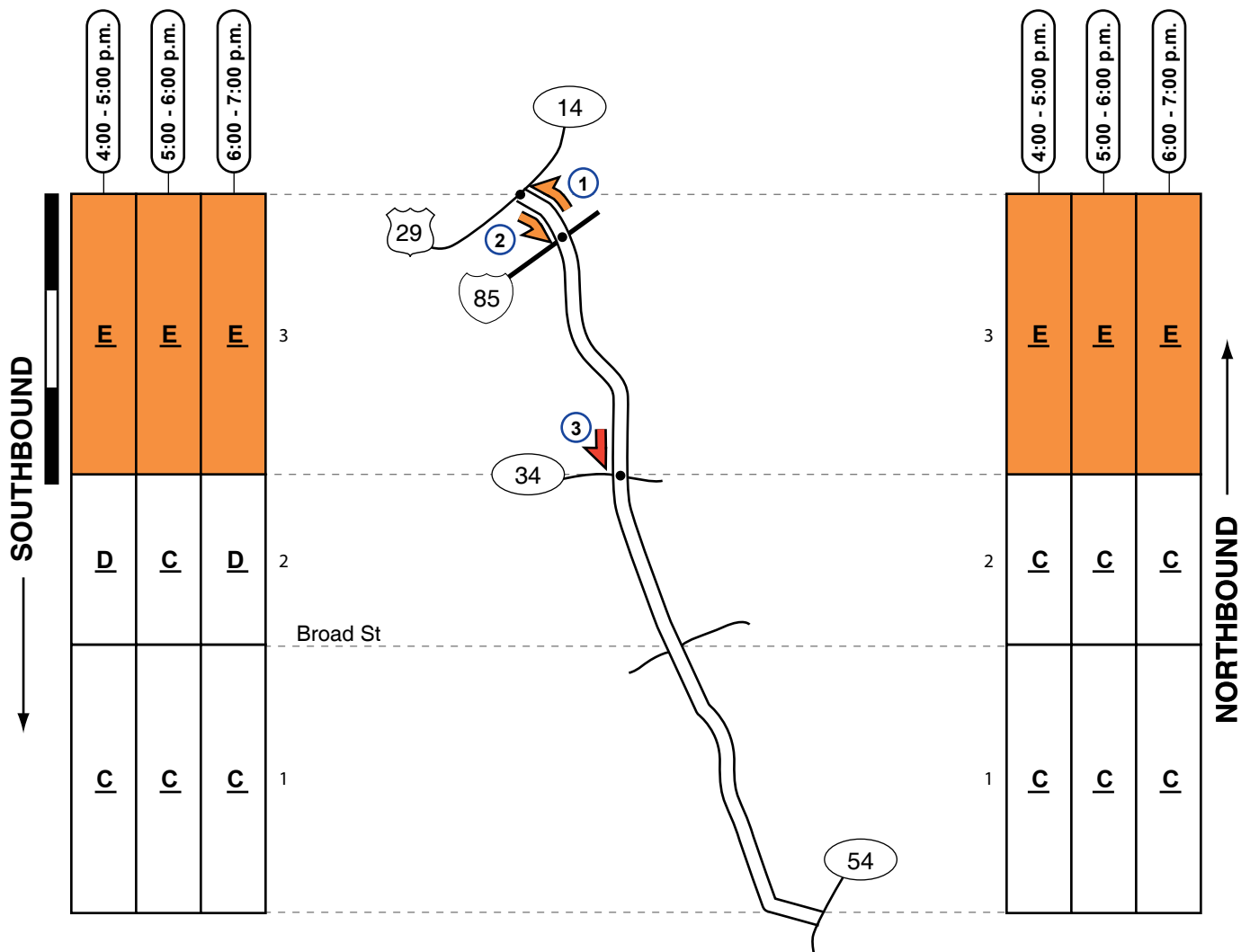
SR 154 (COWETA COUNTY) - MORNING



Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 154 (COWETA COUNTY) - EVENING



- ① **Signal Queue**
 Intersection: SR 14
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 45 vpl
 Number of lanes: One

- ③ **Signal Queue**
 Intersection: SR 34
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 50 vpl
 Number of lanes: One

- ② **Signal Queue**
 Intersection: I-85
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 80 vpl
 Number of lanes: One

Traffic Quality Rating

A
Very Light

B
Light

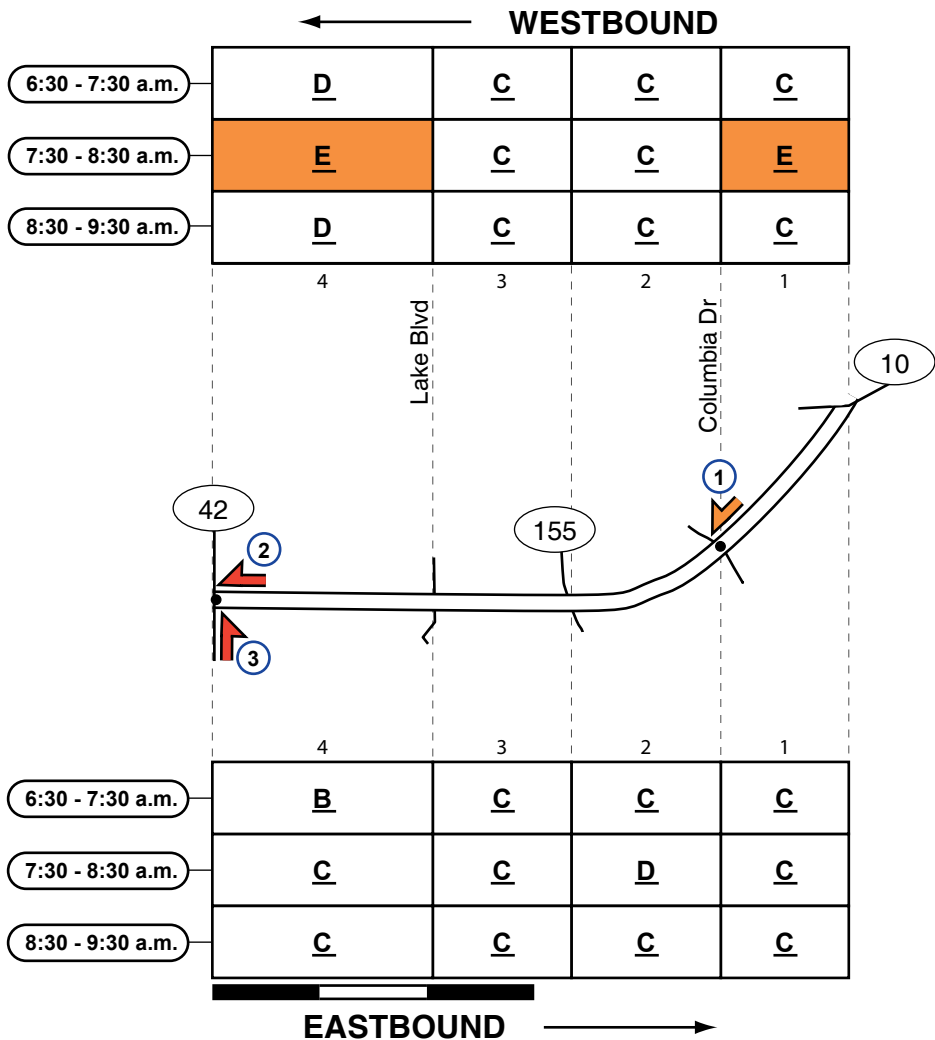
C
Moderate

D
Heavy

E
Congested

F
Severe

SR 154 (DEKALB COUNTY) - MORNING



- 1

Signal Queue

Intersection: Columbia Dr

Frequency: Middle hour

Direction: Westbound

Queue Populations: 20 to 35 vpl

Number of Lanes: Two

Note: In some cases, westbound congestion at Columbia Dr extended back through the upstream signal at Midway Rd.
- 3

Congested Cross Road

Road Name: SR 42

Frequency: Most observations before 8:30 a.m.

Direction: Northbound

Queue Populations: 20 to 70 vpl

Number of Lanes: Two

Note: The intersection at SR 154 was under construction throughout the fall survey period.
- 2

Signal Queue

Intersection: SR 42

Frequency: Most observations

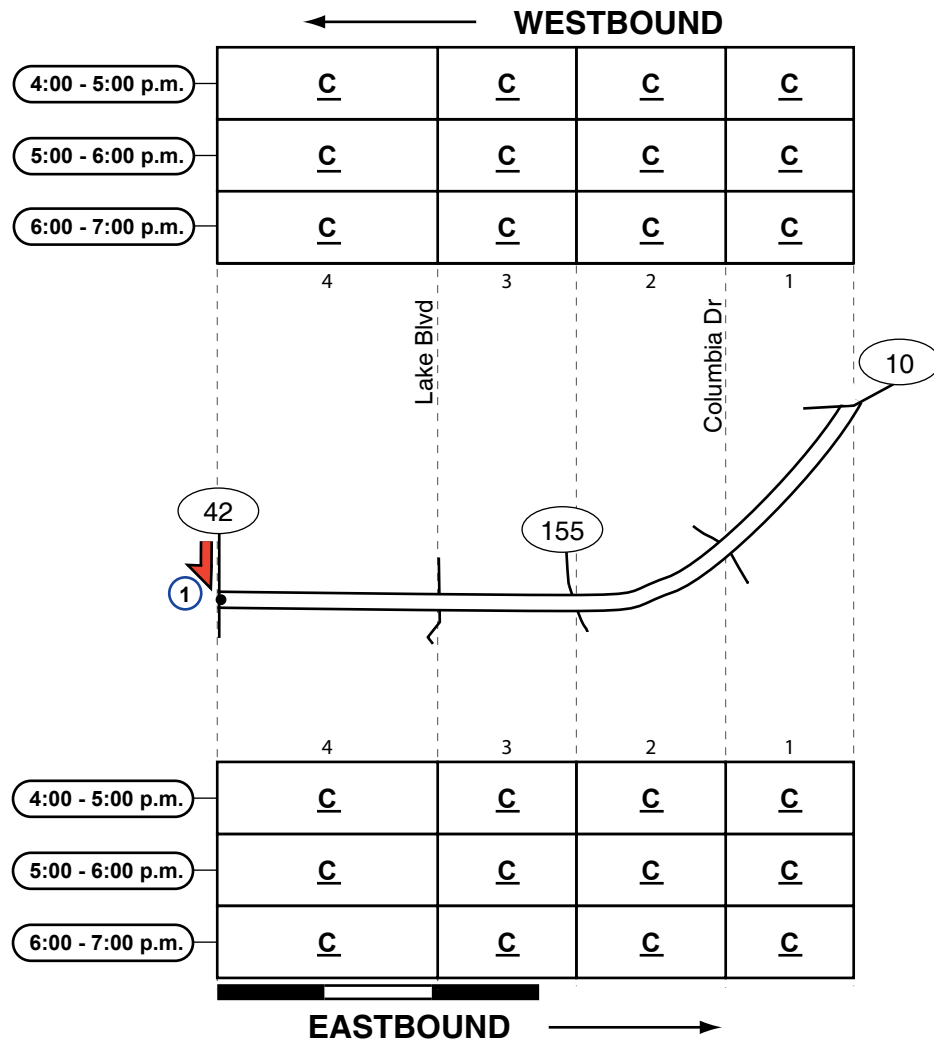
Direction: Westbound

Queue Populations: 20 to 45 vpl

Number of Lanes: One

Note: The intersection at SR 42 was under construction throughout the fall survey period.

SR 154 (DEKALB COUNTY) - EVENING



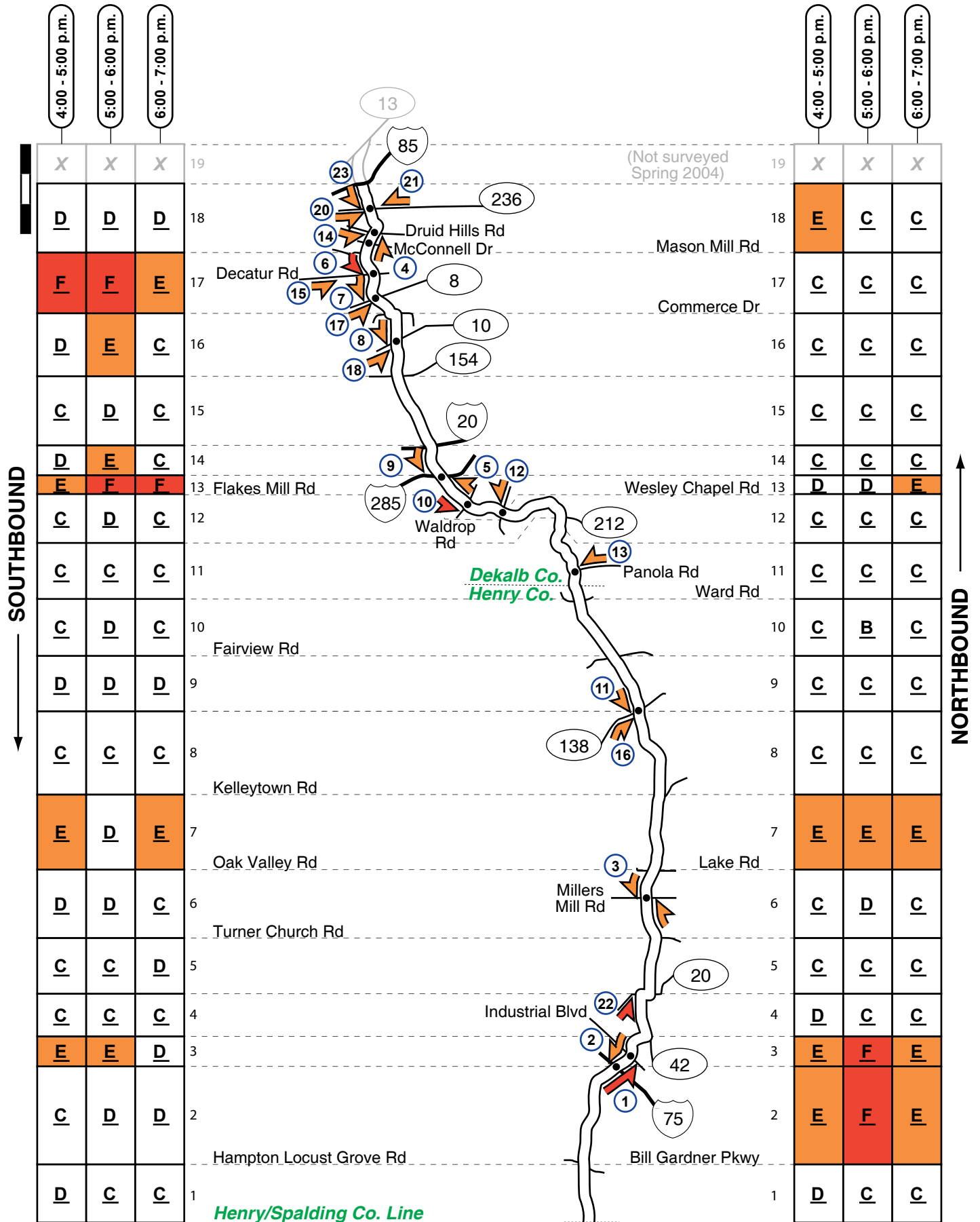
- ① Congested Cross Road
 Road Name: SR 42
 Frequency: Most observations
 Direction: Southbound
 Queue Populations: 20 to 60 vpl
 Number of Lanes: Two

F
Severe

SR 155 (DEKALB & HENRY COUNTIES) - MORNING

- ① Platoons
Location: Between Bill Gardner Pkwy & I-75
Frequency: Most observations before 8:00 a.m.
Direction: Northbound
Platoon Populations: 25 to 45 vpl
Number of Lanes: One
- ② Signal Queues
Intersections: Industrial Blvd & I-75
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 70 vpl
Number of Lanes: One
Note: In some cases, southbound congestion at I-75 extended back through the upstream signal at Industrial Blvd.
- ③ Signal Queue
Intersection: SR 138
Frequency: Most observations after 7:30 a.m.
Direction: Northbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ④ Signal Queue
Intersection: Druid Hills Rd
Frequency: Intermittently after 7:30 a.m.
Direction: Southbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two
- ⑤ Signal Queues
Intersections: Briarcliff Rd & I-85
Frequency: Middle hour (intermittent)
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑥ Signal Queue
Intersection: Clifton Springs Rd
Frequency: Most observations before 8:30 a.m.
Direction: Northbound
Queue Populations: 20 to 110 vpl
Number of Lanes: Two
- ⑦ Signal Queues
Intersections: Rainbow Dr, Whites Mill Rd & I-20
Frequency: Middle hour (intermittent)
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑧ Signal Queue
Intersection: SR 10
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑨ Congested Cross Road
Road Name: Decatur Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑩ Congested Cross Road
Road Name: SR 236
Frequency: Most observations after 7:30 a.m.
Direction: Westbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
- ⑪ Congested Cross Road
Road Name: SR 8
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 65 vpl
Number of Lanes: Two

SR 155 (DEKALB & HENRY COUNTIES) - EVENING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

E

Congested

F

Severe

SR 155 (DEKALB & HENRY COUNTIES) - EVENING

- ① Signal Queues
Intersections: I-75 & Industrial Blvd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 100 vpl
Number of Lanes: One
Note: In some cases, northbound congestion at Industrial Blvd extended back through the upstream signal at I-75.
- ② Signal Queue
Intersection: I-75
Frequency: Most observations before 6:00 p.m.
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ③ Signal Queues
Intersection: Millers Mill Rd
Frequency: Intermittent
Direction: Northbound & Southbound
Queue Populations: 20 to 65 vpl
Number of Lanes: One
Note: Congestion may have been non-recurring / atypical as each time congestion was found, several vehicles were parked on the grass/ dirt shoulder in the vicinity of the intersection.
- ④ Signal Queues
Intersections: McConnell Dr & Druid Hills Rd
Frequency: Early in the survey period (intermittent)
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑤ Signal Queue
Intersection: I-285
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 35 vpl
Number of Lanes: Two
- ⑥ Signal Queue
Intersection: Decatur Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two
- ⑦ Signal Queue
Intersection: SR 8
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑧ Signal Queue
Intersection: SR 10
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑨ Signal Queues
Intersections: Between I-20 & I-285 (Panthersville Rd, Flat Shoals Rd, Rainbow Dr & Whites Mill Rd)
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two
- ⑩ Signal Queue
Intersection: Waldrop Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 80 vpl
Number of Lanes: Two
- ⑪ Signal Queue
Intersection: SR 138
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑫ Congested Cross Road
Road Name: Wesley Chapel Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑬ Congested Cross Road
Road Name: Panola Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑭ Congested Cross Road
Road Name: Druid Hills Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑮ Congested Cross Road
Road Name: Decatur Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑯ Congested Cross Road
Road Name: SR 138
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑰ Congested Cross Road
Road Name: SR 8
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑱ Congested Cross Road
Road Name: SR 10
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑲ Congested Cross Road
Road Name: SR 236
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑳ Congested Cross Road
Road Name: SR 236
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ㉑ Congested Cross Road
Road Name: SR 20
Frequency: Most observations
Direction: Eastbound
Queue Populations: 25 to 35 vpl
Number of Lanes: One
- ㉒ Signal Queue
Intersection: SR 236
Frequency: Intermittent
Direction: Southbound
Queue Population: 20 to 30 vpl
Number of Lanes: Two

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

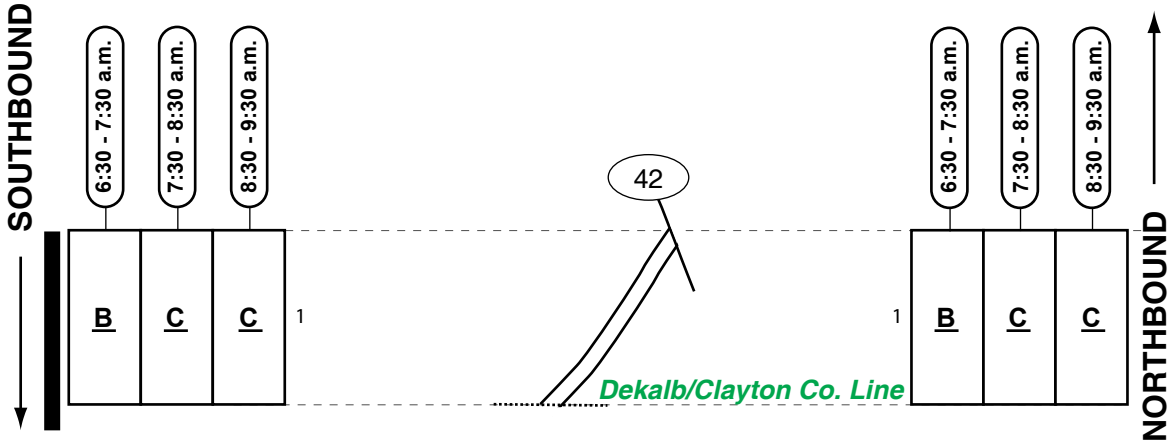
E

Congested

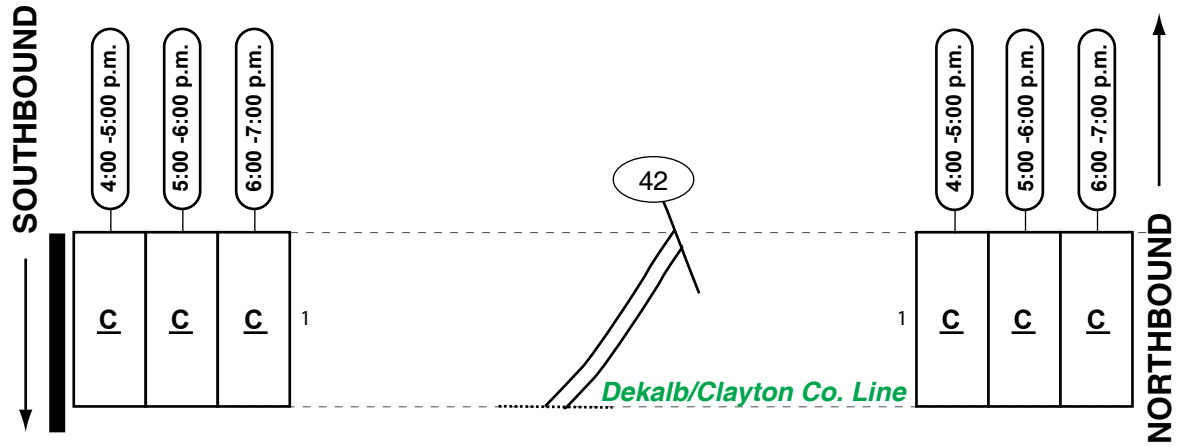
F

Severe

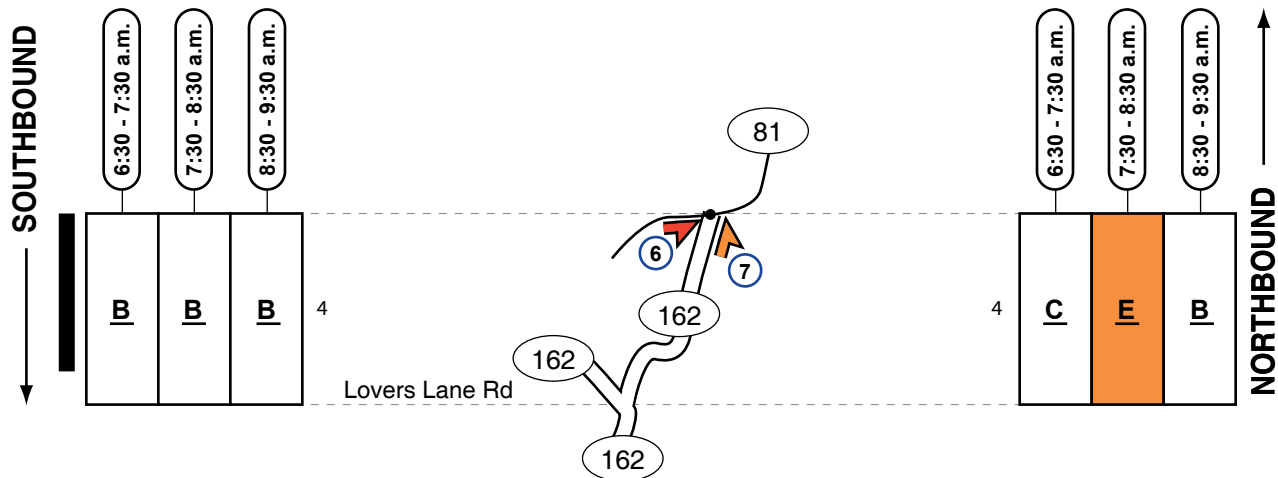
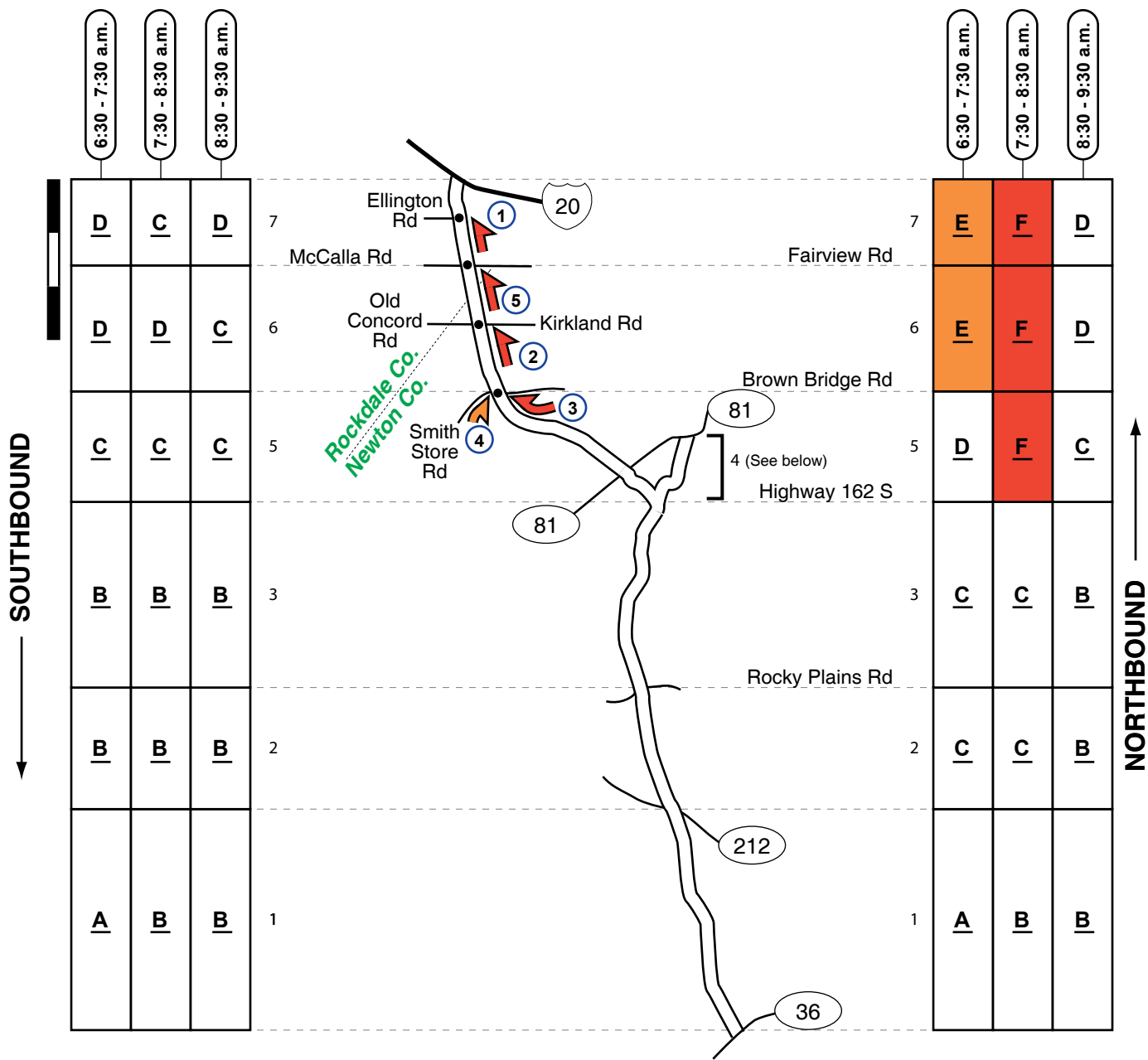
SR 160 (DEKALB COUNTY) - MORNING



SR 160 (DEKALB COUNTY) - EVENING



SR 162 (ROCKDALE & NEWTON COUNTIES) - MORNING



Traffic Quality Rating



SR 162 (ROCKDALE & NEWTON COUNTIES) - MORNING

- ① Signal Queue
Intersection: Ellington Rd
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One

- ② Signal Queue
Intersection: Kirkland Rd/Old Concord Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 70 vpl
Number of Lanes: One

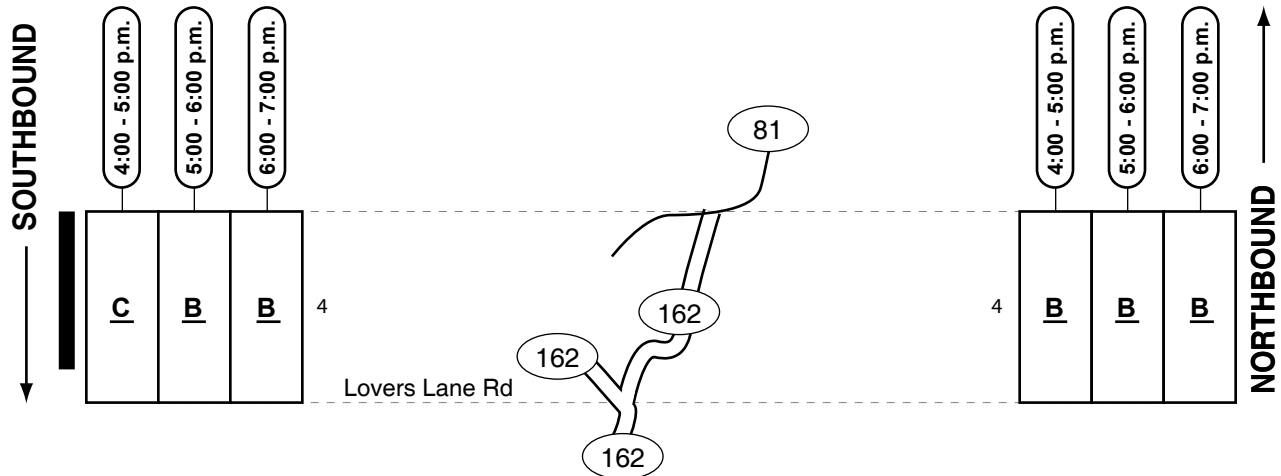
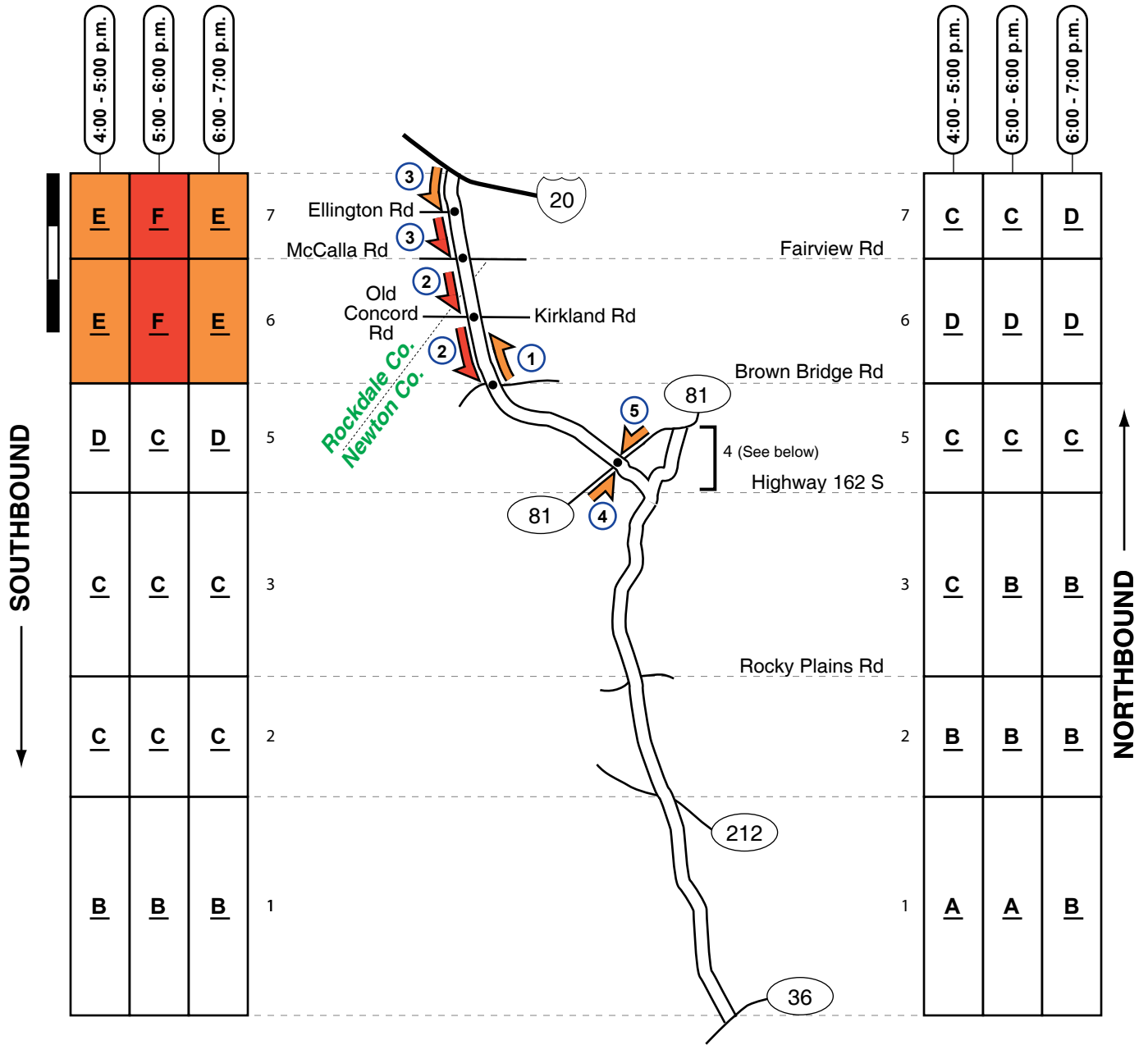
- ③ Signal Queue
Intersection: Brown Bridge Rd
Frequency: Most observations before 8:30 a.m.
Direction: Northbound
Queue Populations: 20 to 70 vpl
Number of Lanes: One

- ④ Congested Cross Road
Road Name: Smith Store Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

- ⑥ Congested Cross Road
Road Name: SR 81
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 70 vpl
Number of Lanes: One

- ⑦ Signal Queue
Intersection: SR 81
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

SR 162 (ROCKDALE & NEWTON COUNTIES) - EVENING



Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 162 (ROCKDALE & NEWTON COUNTIES) - EVENING

① Platoons

Location: Between Brown Bridge Rd and McCalla Rd
Frequency: Intermittent
Direction: Northbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One

② Signal Queues

Intersection: Brown Bridge Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 70 vpl
Number of Lanes: One

Intersection: Kirkland Rd/Old Concord Dr
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One

③ Signal Queues

Intersection: McCalla Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One

Intersection: Ellington Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

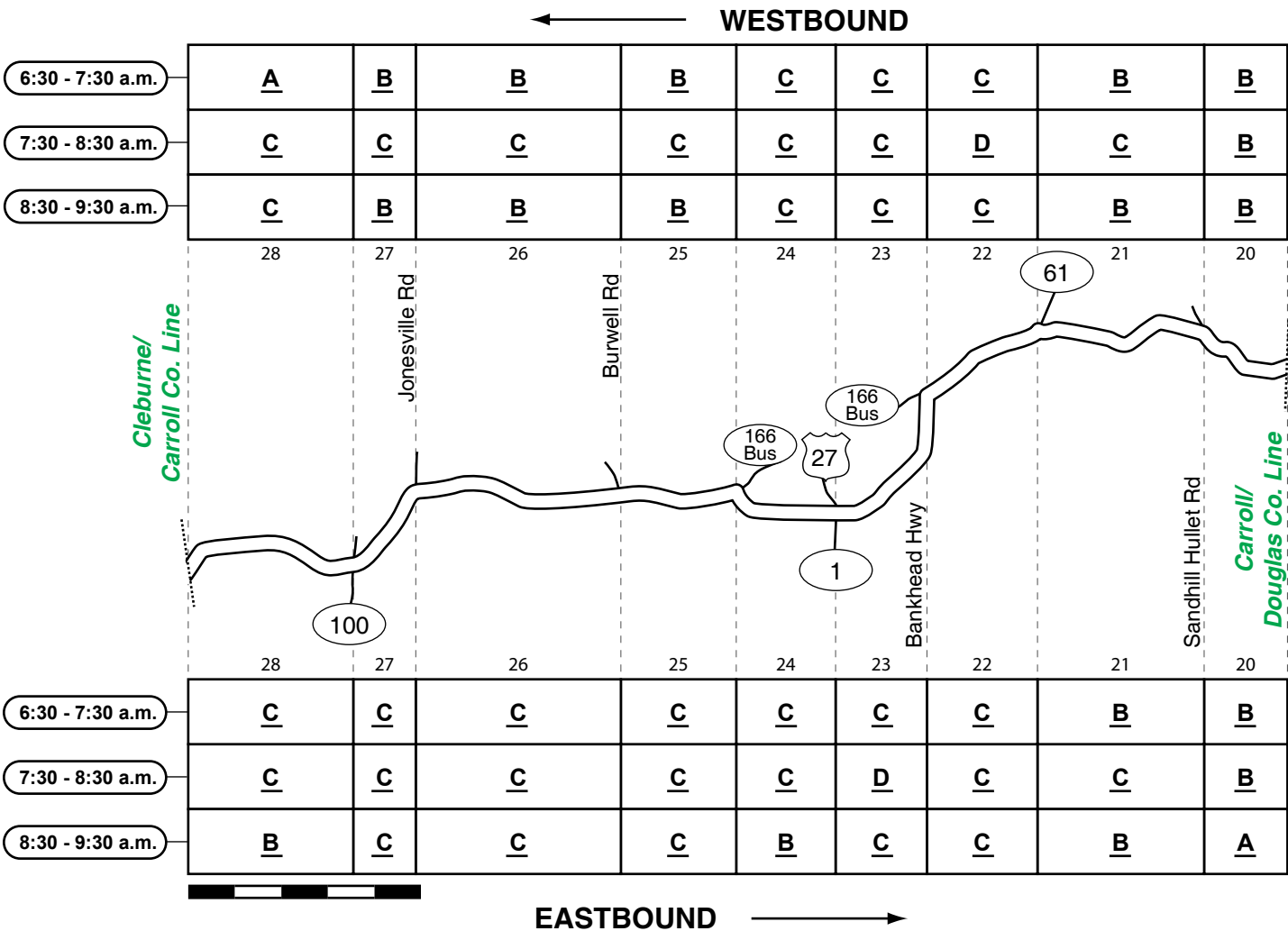
④ Congested Cross Road

Intersection: SR 81
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

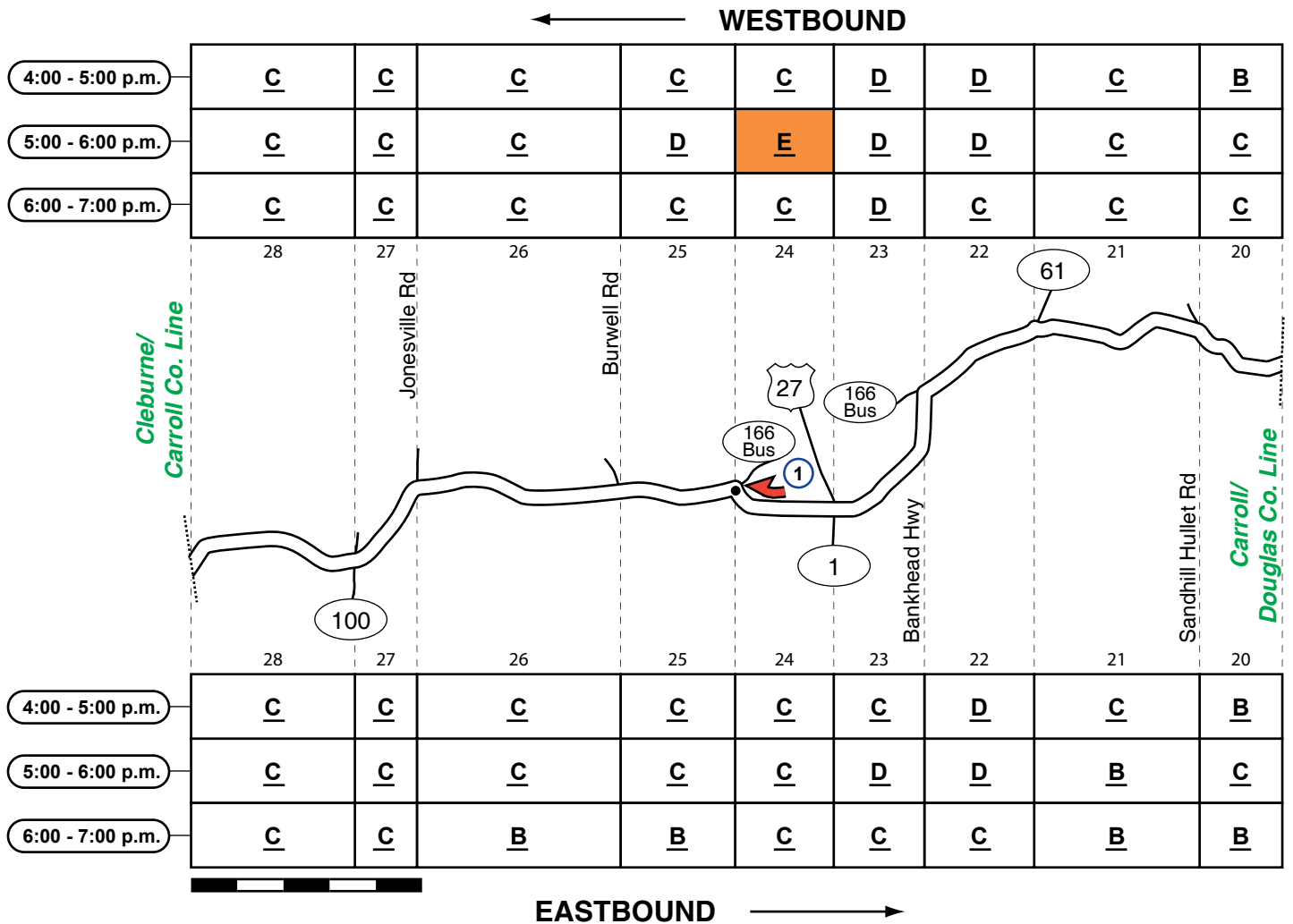
⑤ Congested Cross Road

Intersection: SR 81
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

SR 166 (CARROLL COUNTY) - MORNING



SR 166 (CARROLL COUNTY) - EVENING

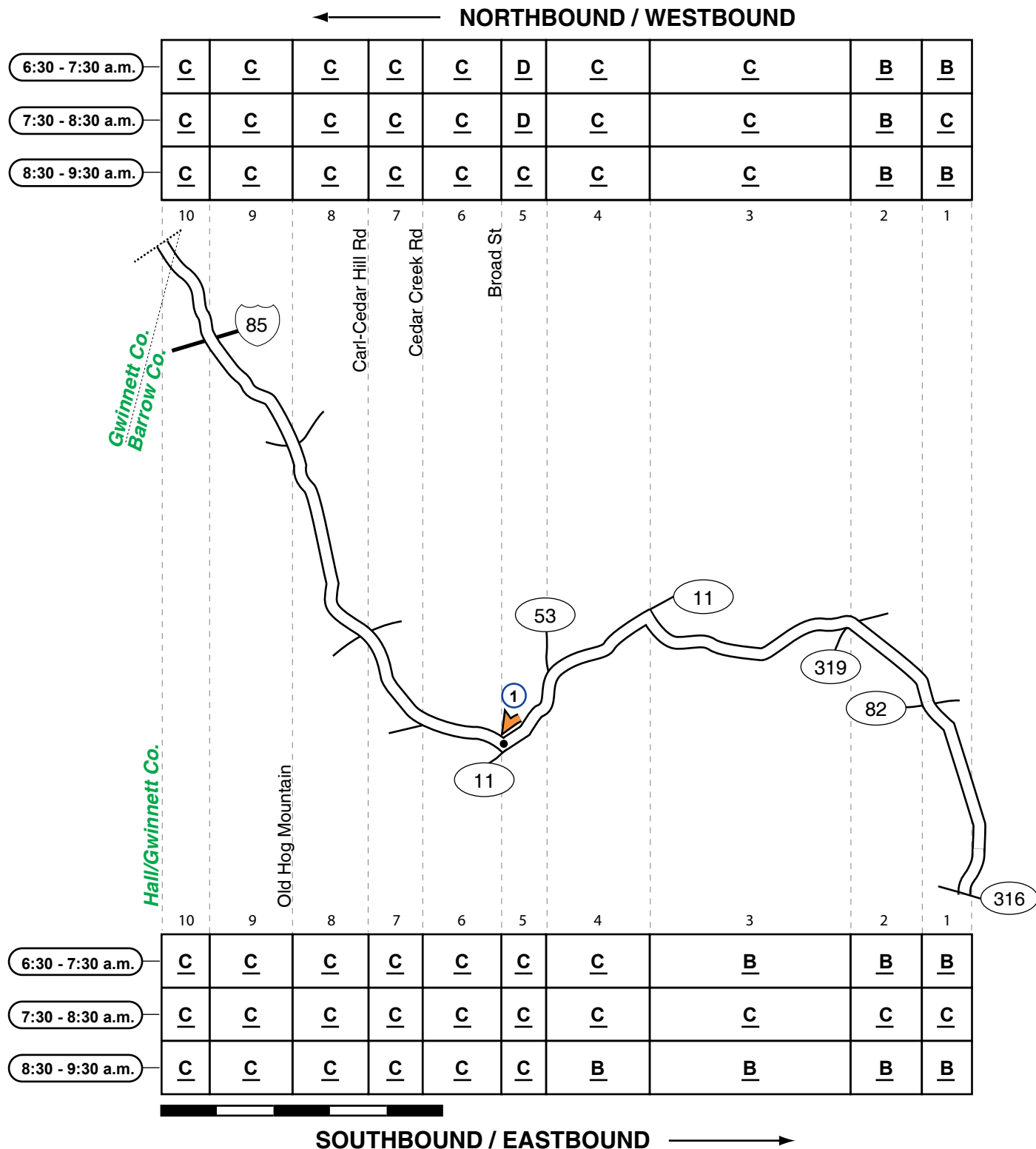


- ① Signal Queue
 Intersection: SR 166 Bus.
 Frequency: Middle hour
 Direction: Westbound
 Queue Populations: 20 to 60 vpl
 Number of Lanes: One

Traffic Quality Rating

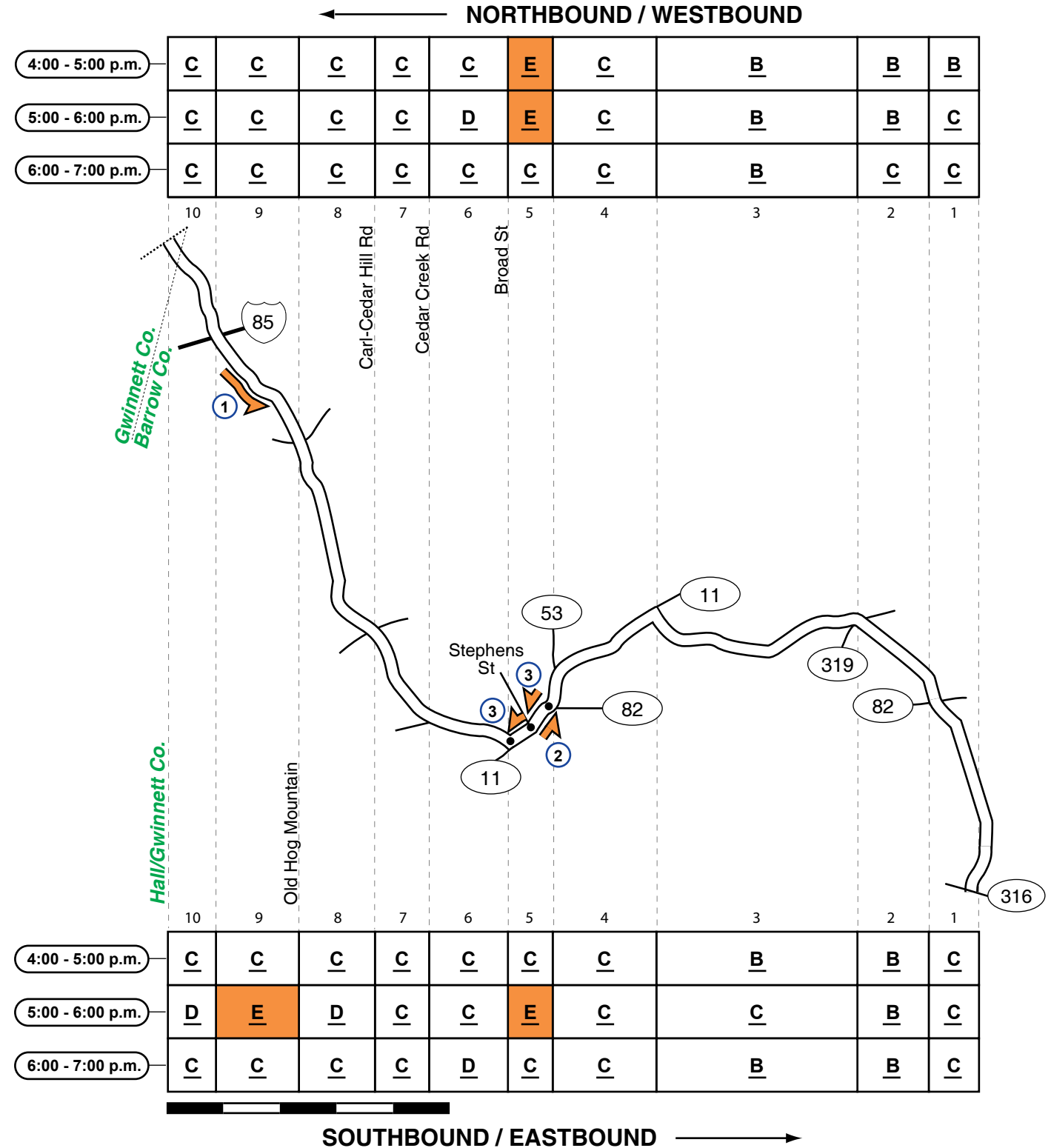
<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 211 (BARROW & GWINNETT COUNTIES) - MORNING



- ① Signal Queue
 Intersection: SR 11
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

SR 211 (BARROW & GWINNETT COUNTIES) - EVENING



① Platoons
 Location: Between I-85 & Old Hog Mountain Rd
 Frequency: Middle hour
 Direction: Southbound
 Platoon Populations: 25 to 30 vpl
 Number of Lanes: One

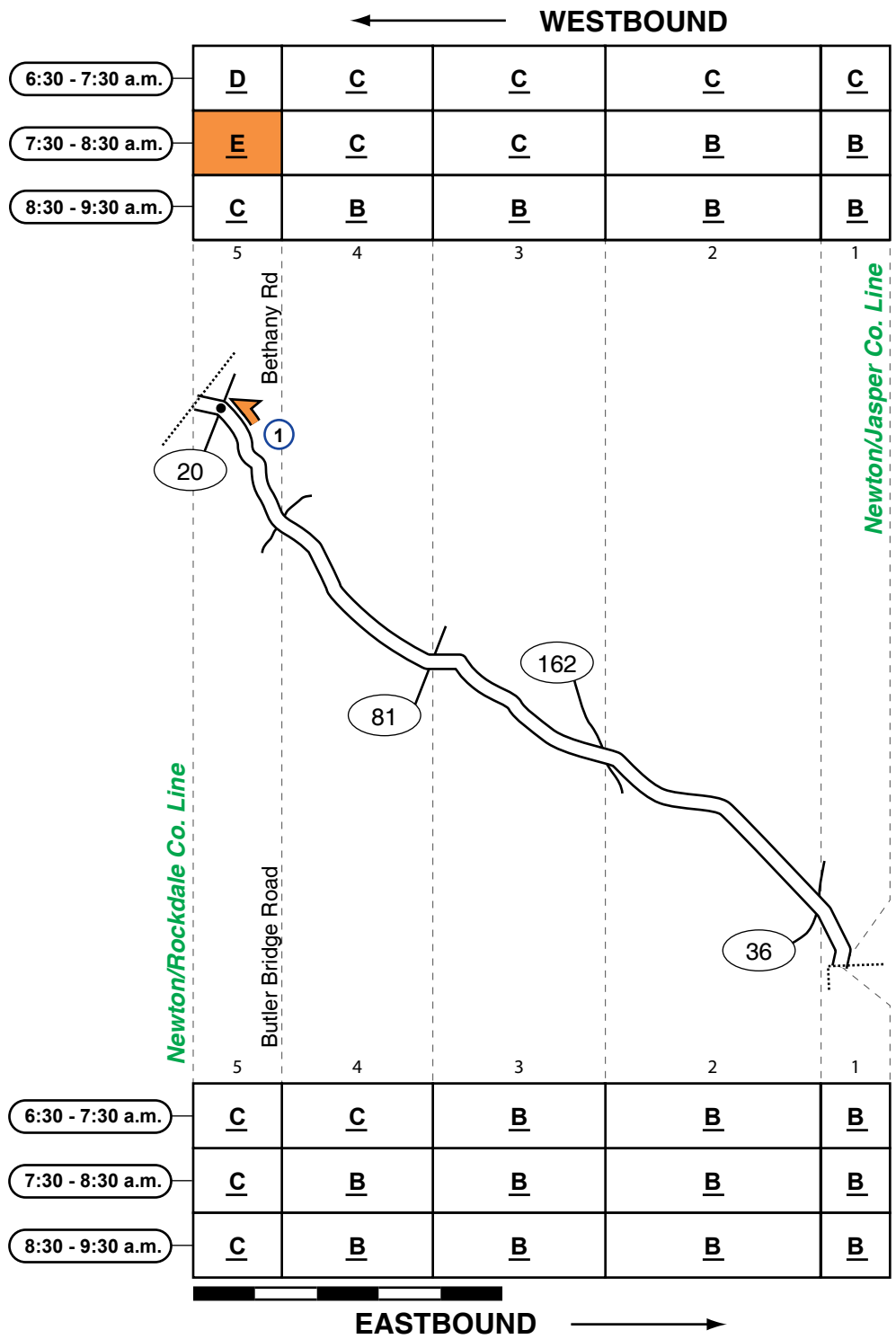
② Signal Queue
 Intersection: SR 82
 Frequency: Middle hour
 Direction: Eastbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

③ Signal Queues
 Intersections: Stephens St & SR 11
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

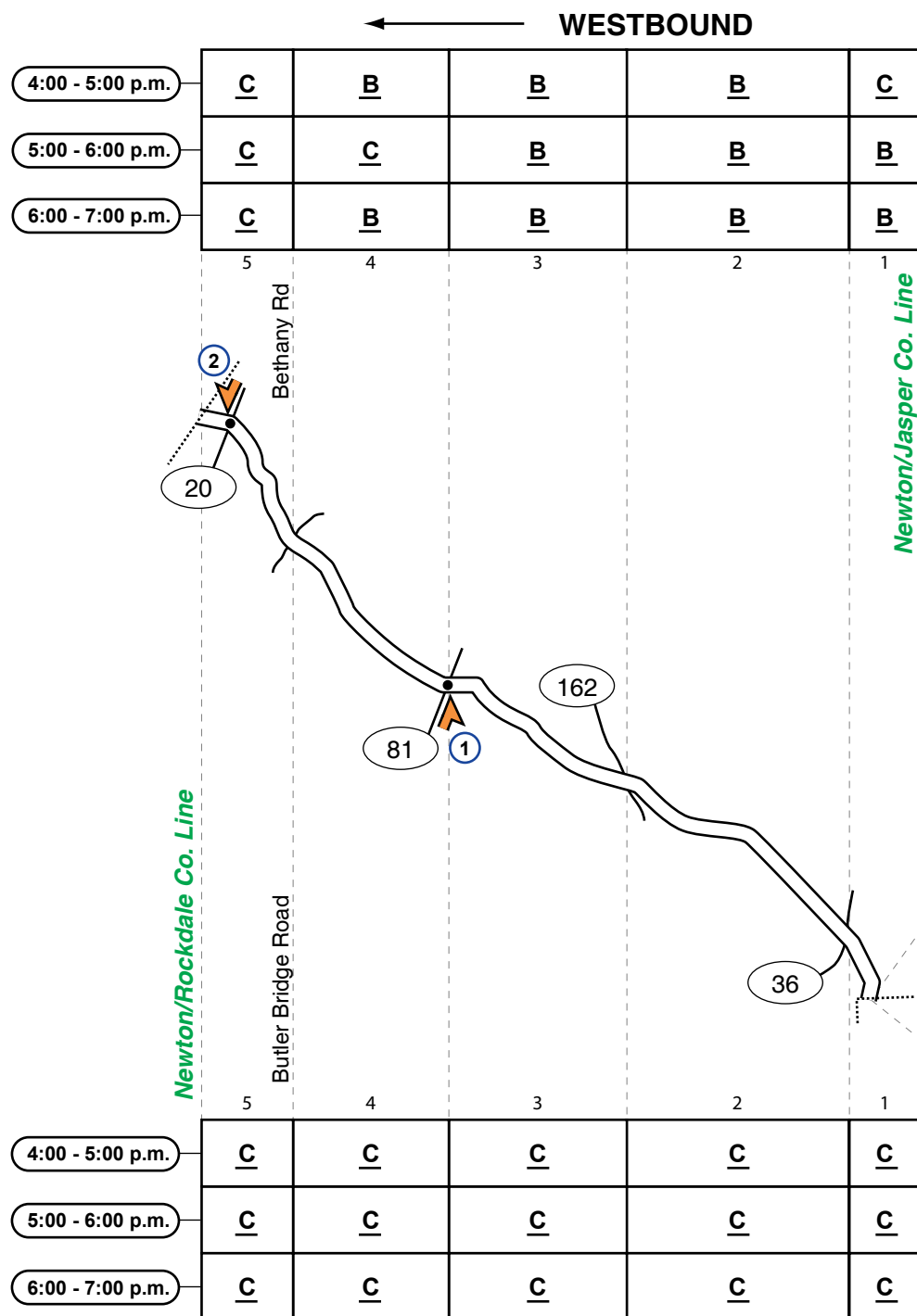
Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 212 (NEWTON COUNTY) - MORNING



SR 212 (NEWTON COUNTY) - EVENING



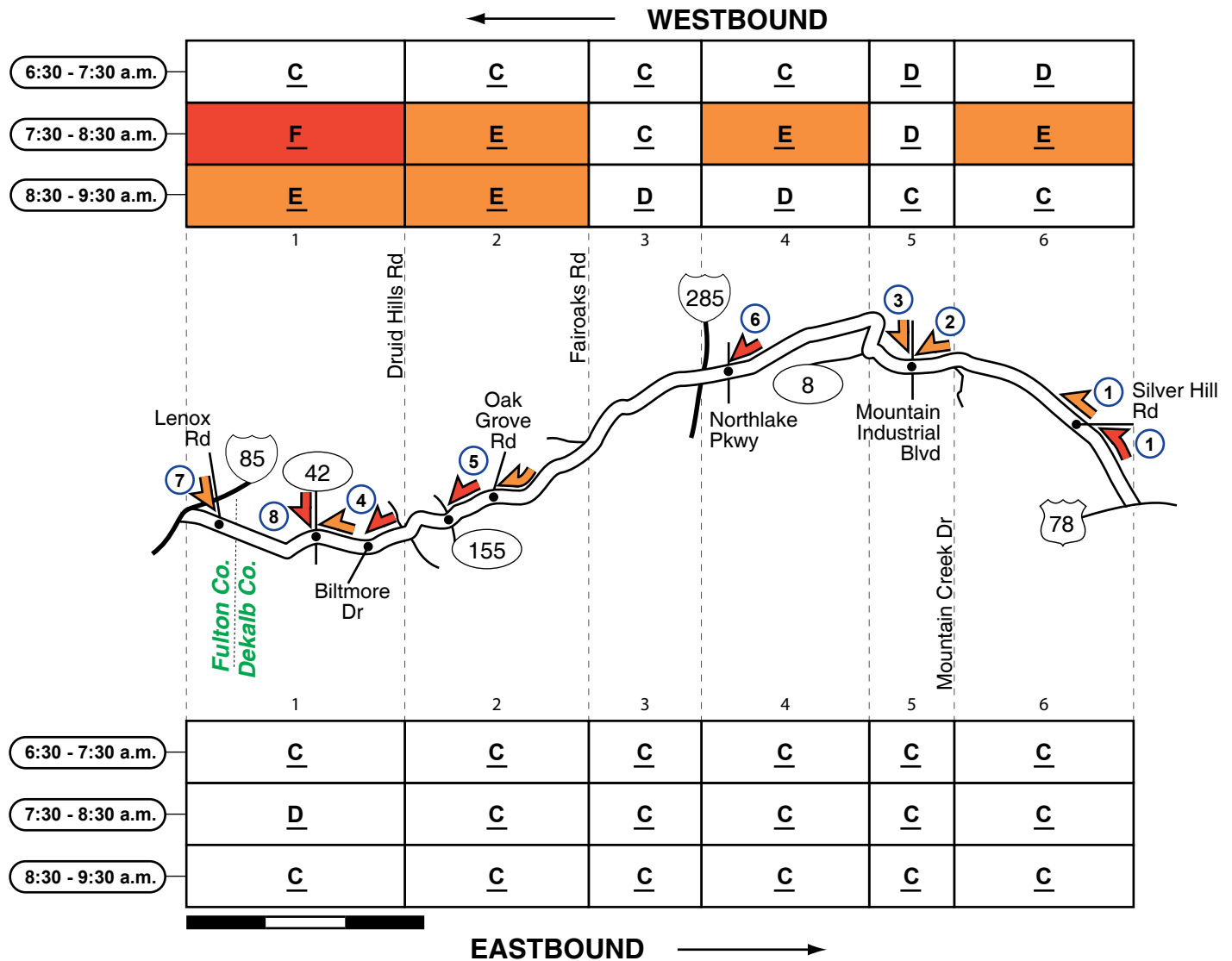
① Congested Cross Road
 Intersection: SR 81
 Frequency: Middle hour
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

② Congested Cross Road
 Road Name: SR 20
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

Traffic Quality Rating



SR 236 (FULTON & DEKALB COUNTIES) - MORNING



Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

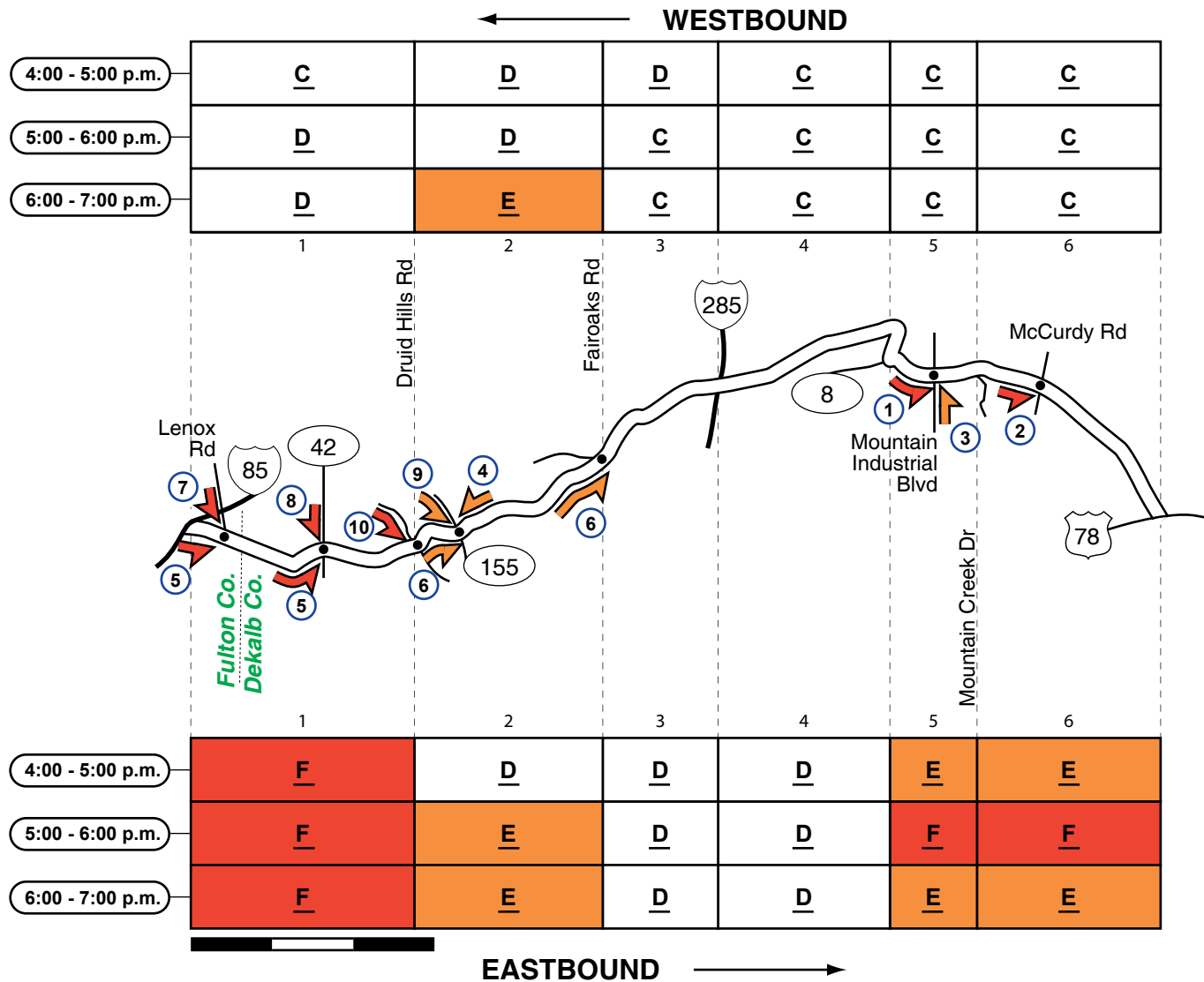
SR 236 (FULTON & DEKALB COUNTIES) - MORNING

- ① Signal Queue
Intersection: Silver Hill Rd
Frequency: Most observations after 7:30 a.m.
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
- ② Signal Queue
Intersection: Mountain Industrial Blvd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- ③ Congested Cross Road
Road Name: Mountain Industrial Blvd
Frequency: Intermittent
Direction: Southbound
Queue Population: 20 to 50 vpl
Number of Lanes: Two
- ④ Signal Queues
Intersection: Biltmore Dr
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One

Intersection: SR 42
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One
- ⑤ Signal Queues
Intersection: Oak Grove Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

Intersection: SR 155
Frequency: Most observations after 7:30 a.m.
Direction: Westbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
- ⑥ Signal Queue
Intersection: Northlake Parkway
Frequency: Most observations between 7:30 and 9:00 a.m.
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
- ⑦ Congested Cross Road
Road Name: Lenox Rd
Frequency: Intermittent
Direction: Southbound
Queue Population: 20 to 35 vpl
Number of Lanes: Two
- ⑧ Congested Cross Road
Road Name: SR 42
Frequency: Most observations after 7:30 a.m.
Direction: Southbound
Queue Population: 20 to 65 vpl
Number of Lanes: One

SR 236 (FULTON & DEKALB COUNTIES) - EVENING



Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

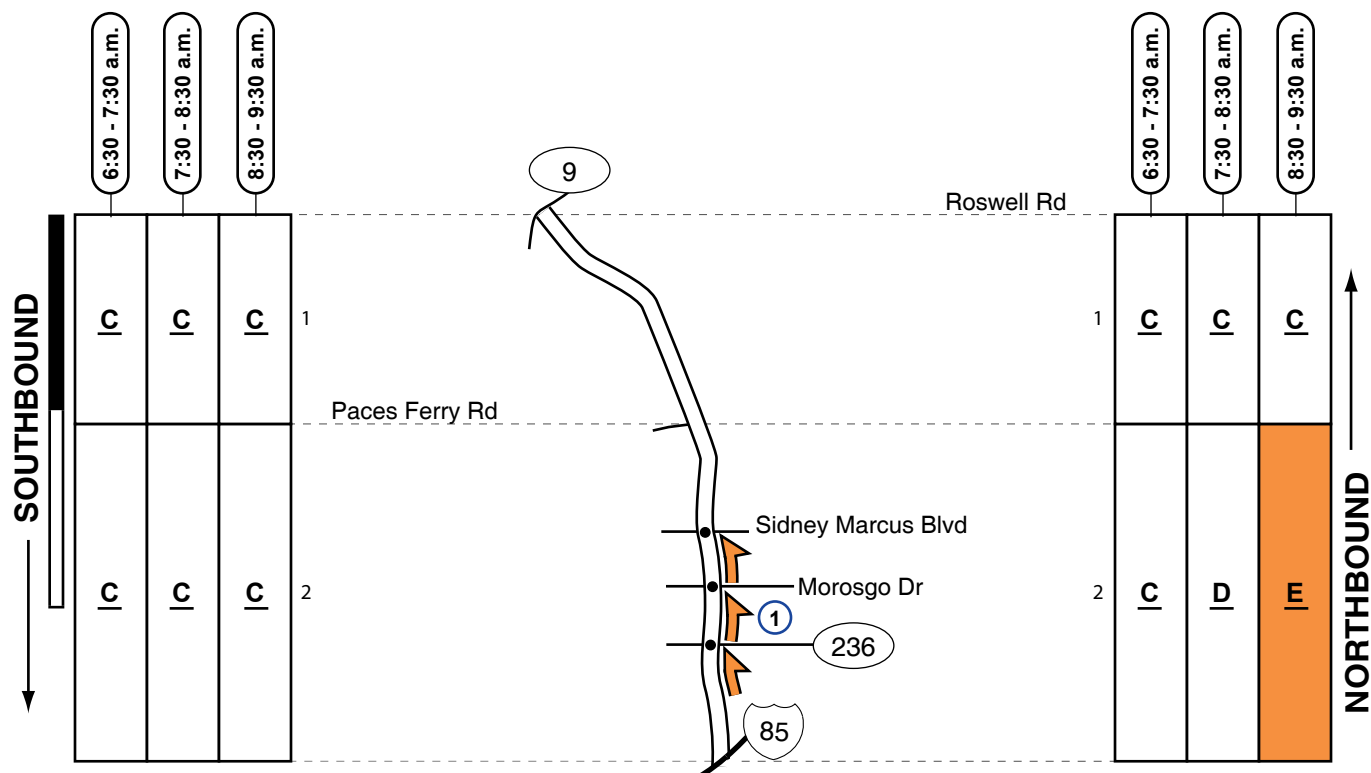
SR 236 (FULTON & DEKALB COUNTIES) - EVENING

- ① Signal Queue
Intersection: Mountain Industrial Blvd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two
Note: Congestion intermittently backed through upstream signal at Tucker Industrial Rd (Middle hour).
- ② Signal Queue
Intersection: McCurdy Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
- ③ Congested Cross Road
Road Name: Mountain Industrial Blvd
Frequency: Intermittent
Direction: Northbound
Queue Population: 20 to 30 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: SR 155
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑤ Signal Queues
Intersection: Lenox Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 70 vpl
Number of Lanes: One

Intersection: SR 42
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
- ⑥ Signal Queues
Intersection: SR 155
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

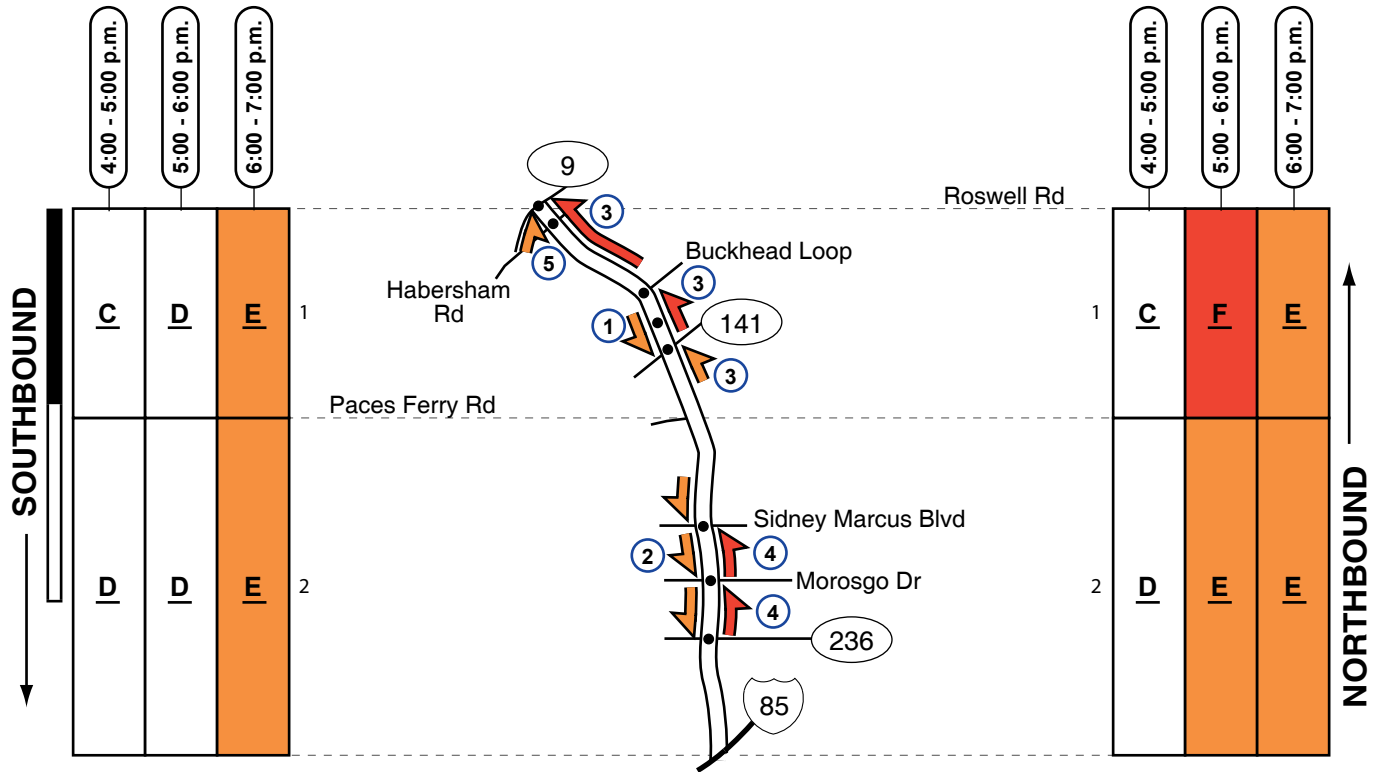
Intersection: Fair Oaks Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ⑦ Congested Cross Road
Road Name: Lenox Rd
Frequency: Most observations
Direction: Southbound
Queue Population: 20 to 60 vpl
Number of Lanes: Two
- ⑧ Congested Cross Road
Road Name: SR 42
Frequency: Most observations
Direction: Southbound
Queue Population: 20 to 50 vpl
Number of Lanes: One
- ⑨ Congested Cross Road
Road Name: SR 155
Frequency: Intermittent
Direction: Southbound
Queue Population: 20 to 30 vpl
Number of Lanes: Two
- ⑩ Congested Cross Road
Road Name: Druid Hills Rd
Frequency: Most observations
Direction: Southbound
Queue Population: 20 to 90 vpl
Number of Lanes: Two
- ⑪ Congested Cross Road
Road Name: SR 42
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One

SR 237 (FULTON COUNTY) - MORNING



- ① Signal Queues
 Intersections: Sidney Marcus Blvd, Morosgo Dr & SR 236
 Frequency: Most observations after 7:30 a.m.
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

SR 237 (FULTON COUNTY) - EVENING



① Signal Queues

Intersections: SR 141 & signal just north of SR 141 (parking lot/local street)
 Frequency: Late in survey period
 Direction: Southbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: Two

④ Signal Queues

Intersections: Sidney Marcus Blvd & Morosgo Dr
 Frequency: Most observations
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

② Signal Queues

Intersections: SR 236, Morosgo Dr & Sidney Marcus Blvd
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

⑤ Congested Cross Road

Road Name: SR 9
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: One

③ Signal Queues

Intersections: SR 9, Habersham Rd, Buckhead Loop, SR 141
 Frequency: Most observations after 5:00 p.m.
 Direction: Northbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: Two
 Note: Signal queues were also found at unidentified local streets/drives along the northern section of SR 237 in Buckhead.

Traffic Quality Rating

A
Very Light

B
Light

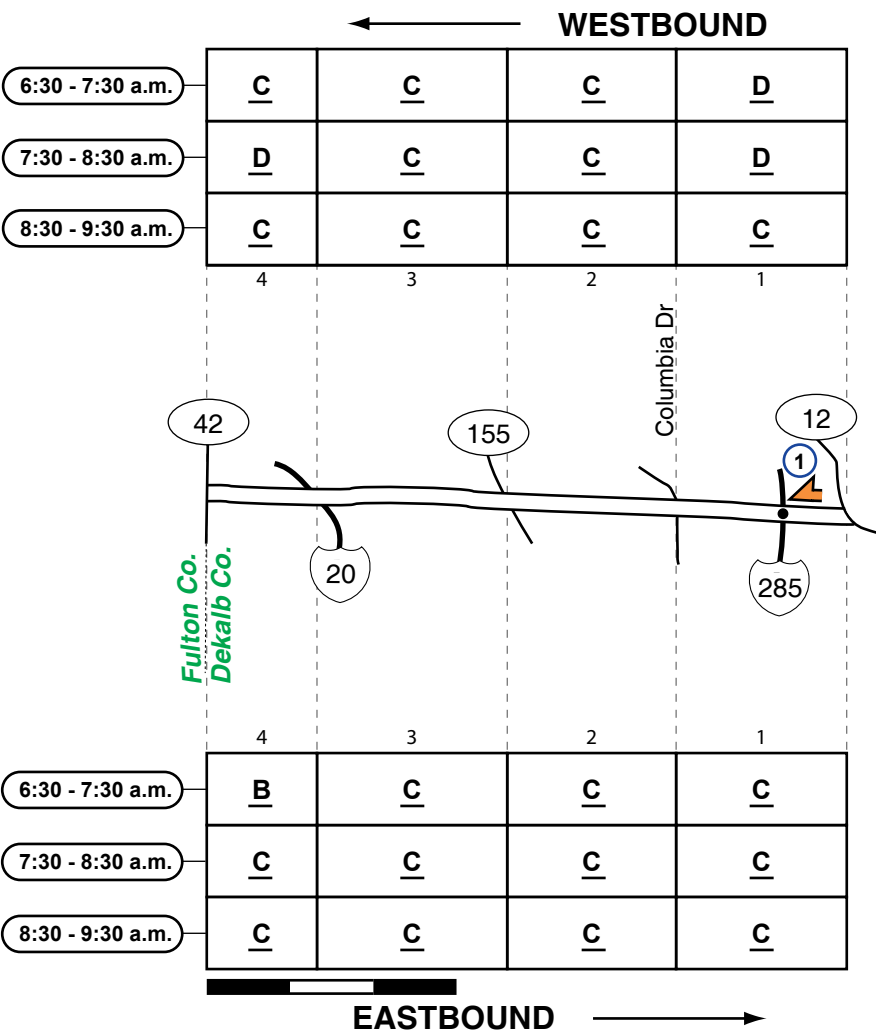
C
Moderate

D
Heavy

E
Congested

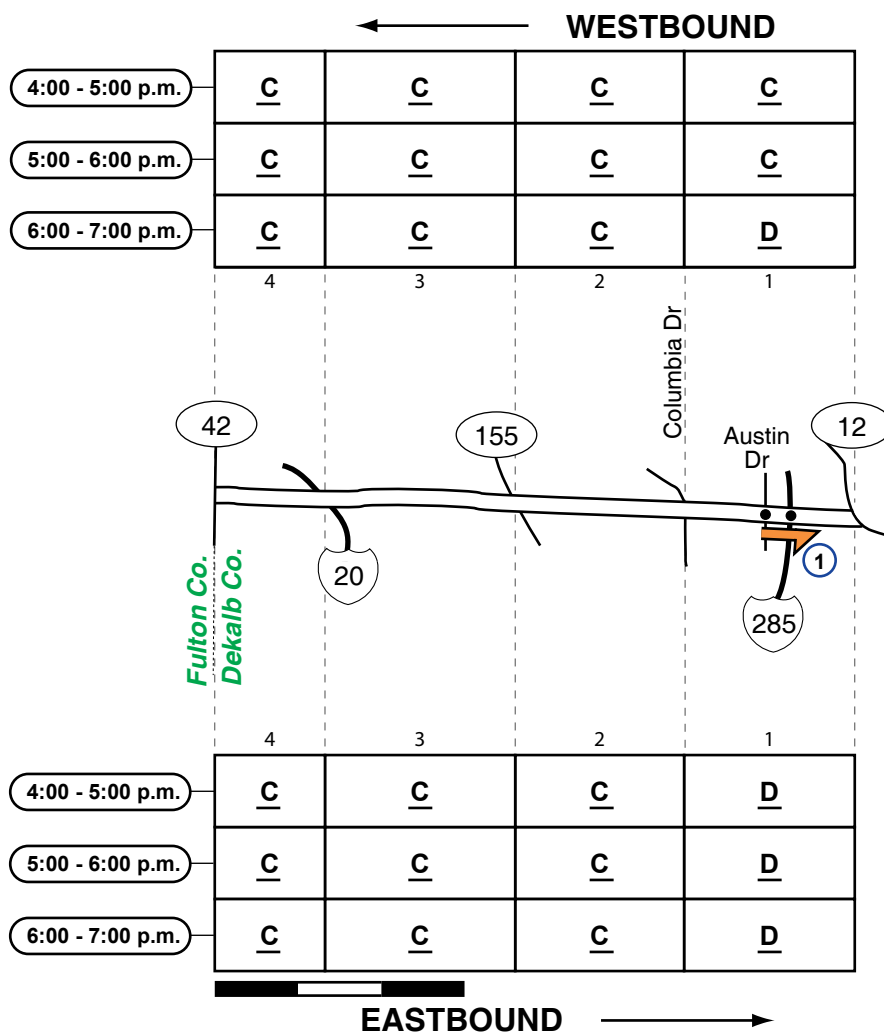
F
Severe

SR 260 (DEKALB COUNTY) - MORNING



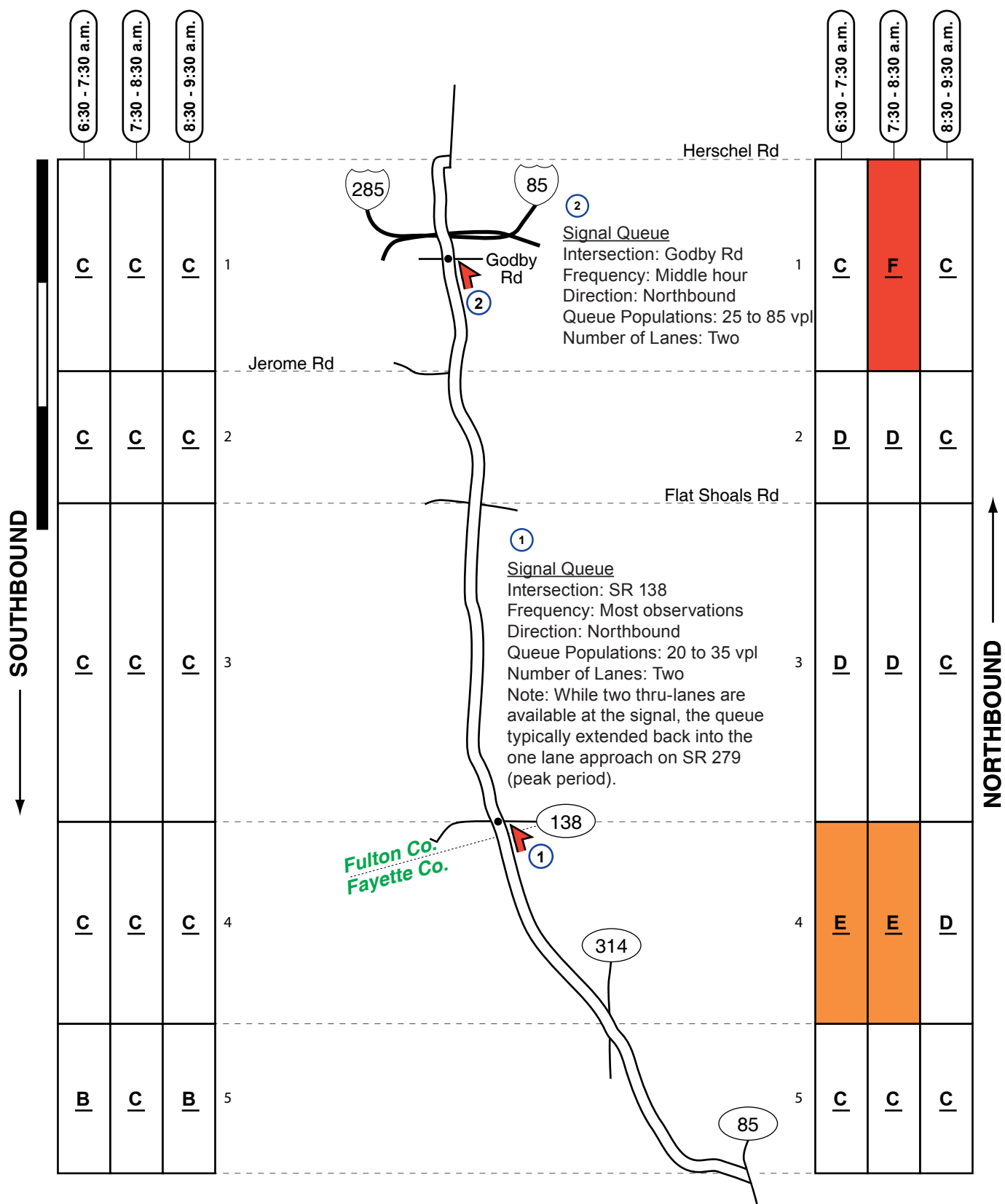
- ① Signal Queue
- Intersection: I-285
- Frequency: Intermittent
- Direction: Westbound
- Queue Populations: 20 to 30 vpl
- Number of Lanes: Two

SR 260 (DEKALB COUNTY) - EVENING



- ① Signal Queue/Platoons
 Intersections: Austin Dr & I-285
 Frequency: Intermittent
 Direction: Eastbound
 Queue/Platoon Populations: 20 to 30 vpl
 Number of Lanes: Two

SR 279 (FULTON & FAYETTE COUNTIES) - MORNING



Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

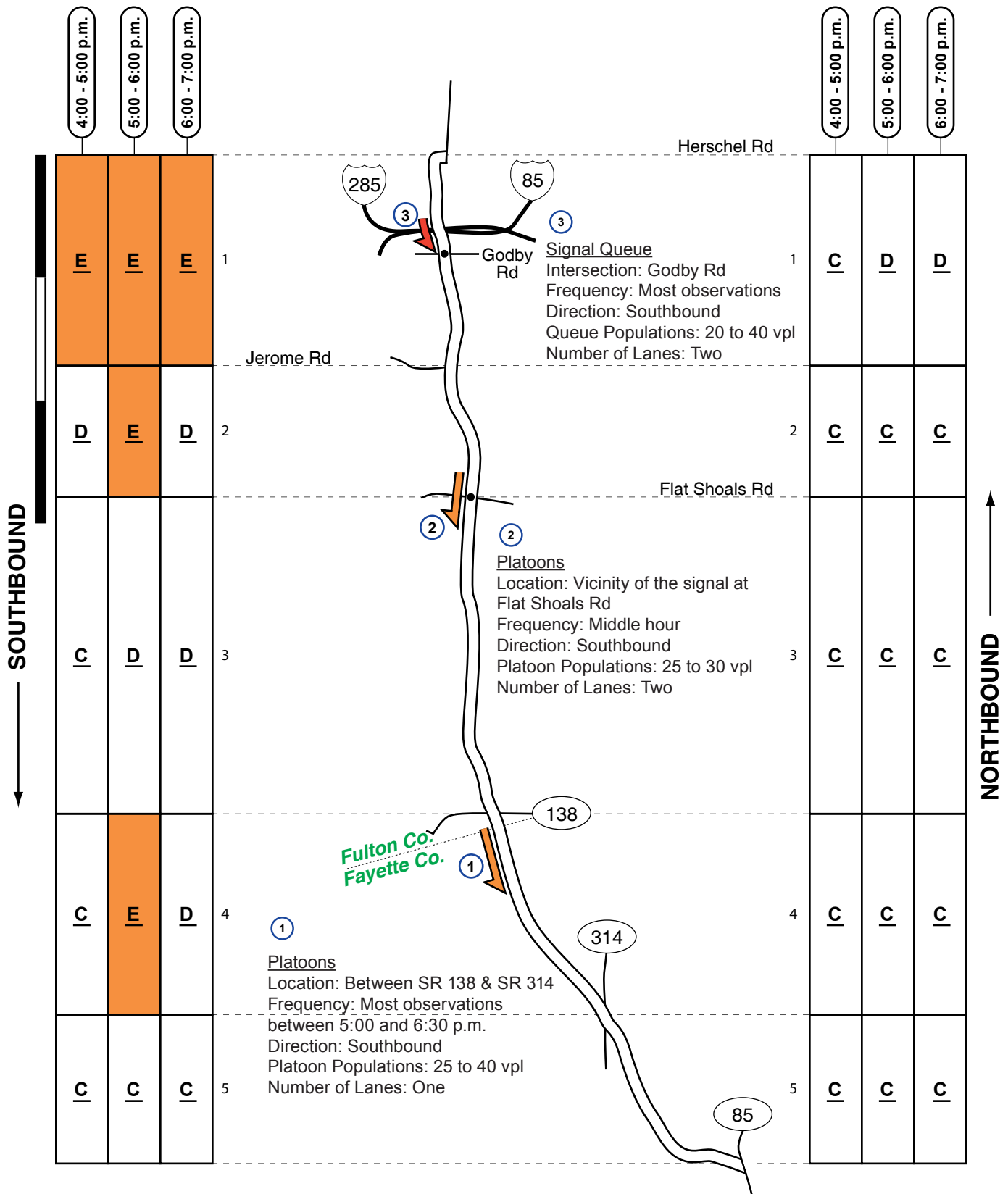
E

Congested

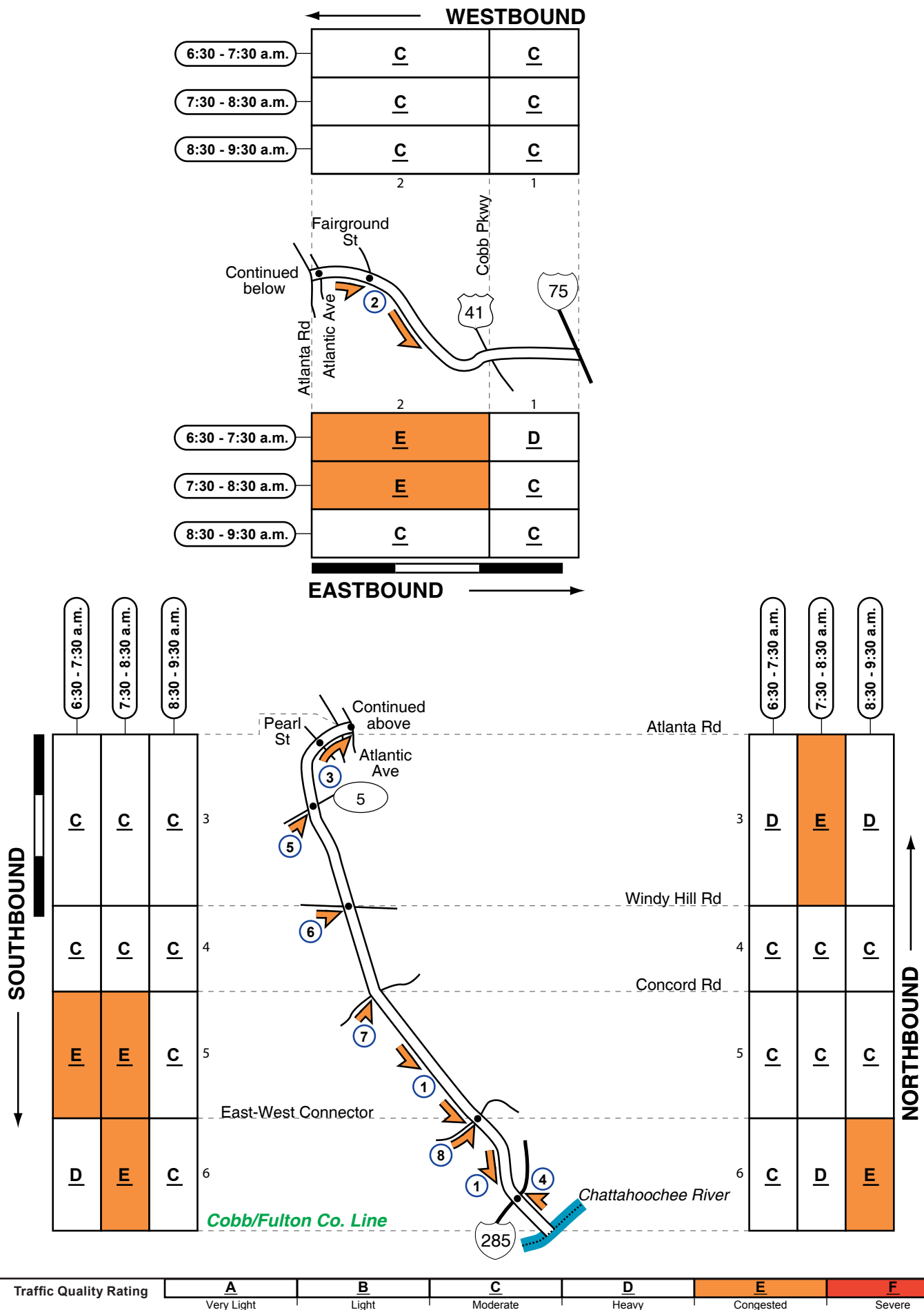
F

Severe

SR 279 (FULTON & FAYETTE COUNTIES) - EVENING



SR 280 (COBB COUNTY) - MORNING



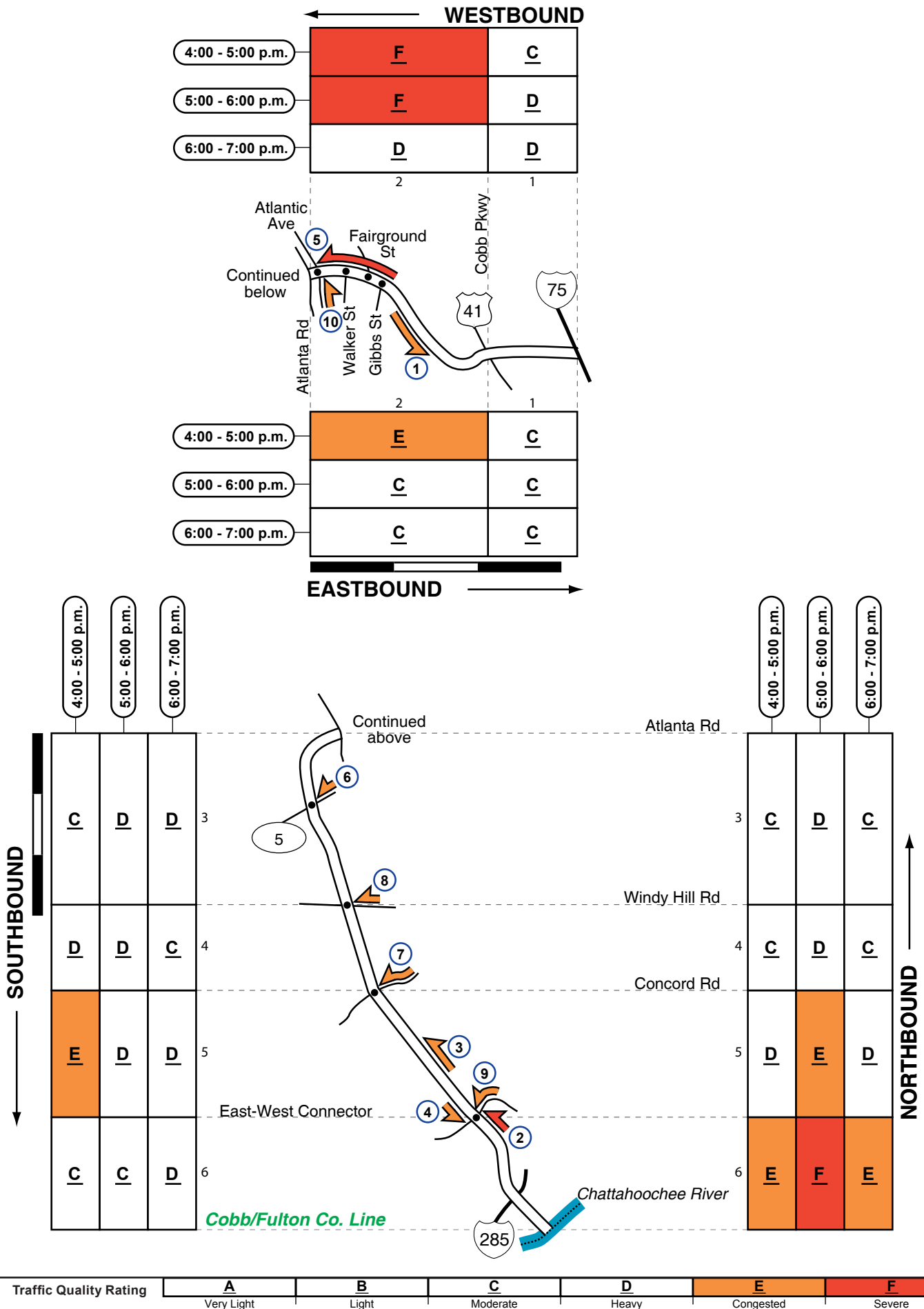
SR 280 (COBB COUNTY) - MORNING

- ① Signal Queue
Intersection: East-West Connector
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two

Platoons
Location: Between Concord Rd & I-285
Frequency: Most observations
Direction: Southbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ② Signal Queue
Intersection: Fairground St
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Platoons
Location: Between Atlanta Rd & US 41
Frequency: Most observations
Direction: Eastbound
Platoon Populations: 25 to 50 vpl
Number of Lanes: Two
- ③ Signal Queues
Intersections: Pearl St & Atlantic Ave
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 35 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: I-285
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑤ Congested Cross Road
Road Name: SR 5
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One (thru-lane)
- ⑥ Congested Cross Road
Road Name: Windy Hill Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
Note: In some cases, eastbound congestion at extended back through the closely spaced upstream signal at Old Concord Rd.
- ⑦ Congested Cross Road
Road Name: Concord Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- ⑧ Congested Cross Road
Road Name: East-West Connector
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

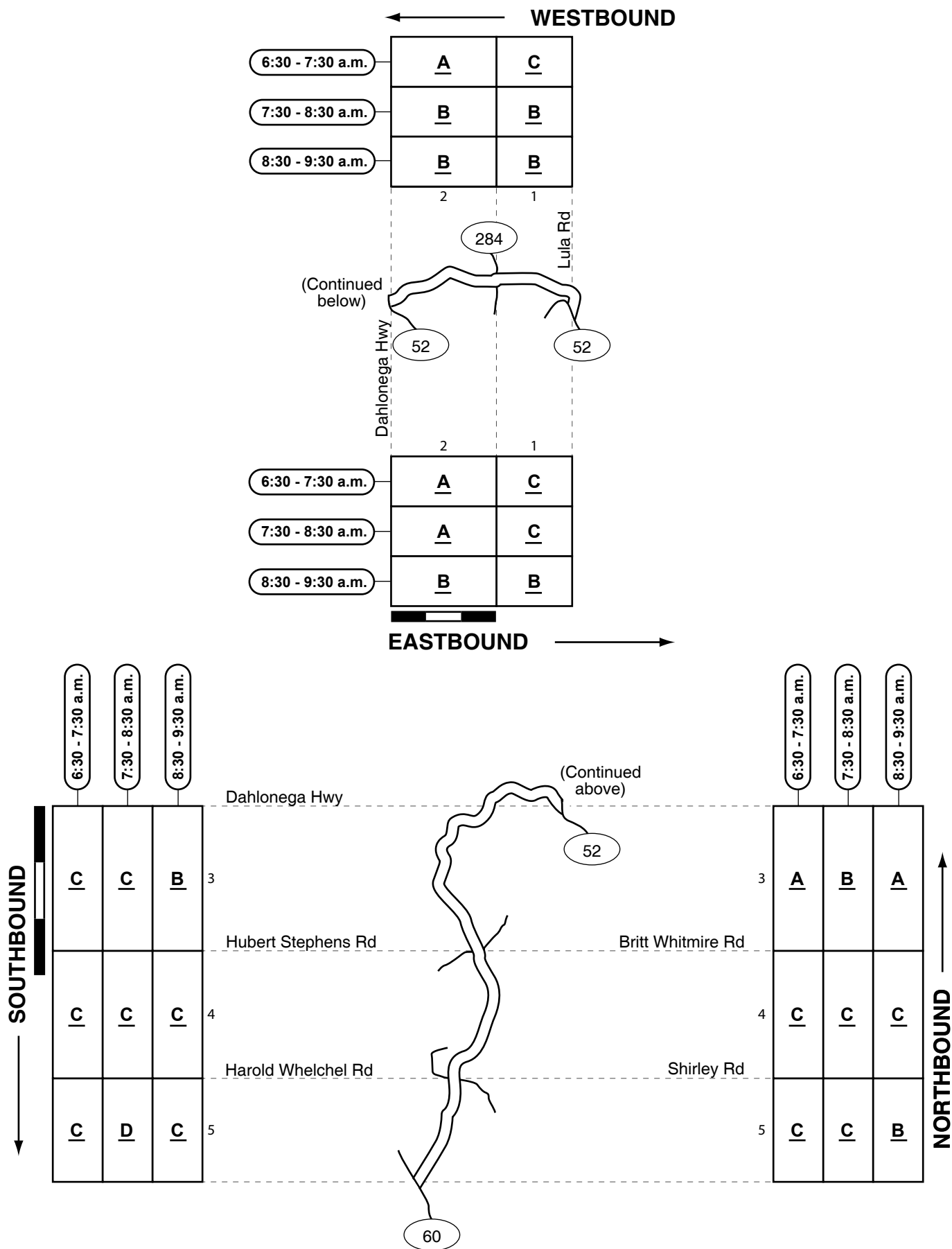
SR 280 (COBB COUNTY) - EVENING



SR 280 (COBB COUNTY) - EVENING

- ① Platoons
Location: Between Atlanta Rd & US 41
Frequency: Early in survey period (intermittent)
Direction: Eastbound
Platoon Populations: 25 to 40 vpl
Number of Lanes: Two
- ② Signal Queue
Intersection: East-West Connector
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 80 vpl
Number of Lanes: Two
Note: In some cases, northbound congestion at East-West Connector extended back through the upstream signal at Wright Rd.
- ③ Platoons
Location: Between East-West Connector & Concord Rd
Frequency: Intermittent
Direction: Northbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: East-West Connector
Frequency: Early in the survey period (intermittent)
Direction: Southbound
Queue Populations: 20 to 35 vpl
Number of Lanes: Two
- ⑤ Signal Queues
Intersections: Gibbs St, Fairground St, Walker St & Atlantic Ave
Frequency: Most observations before 6:00 p.m.
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
Note: In some cases, a mostly continuous queue extended from Atlantic Ave back through two or three upstream signals.
- ⑥ Congested Cross Road
Road Name: SR 5
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑦ Congested Cross Road
Road Name: Concord Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑧ Congested Cross Road
Road Name: Windy Hill Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑨ Congested Cross Road
Road Name: East-West Connector
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two
- ⑩ Congested Cross Road
Road Name: Atlantic Ave
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

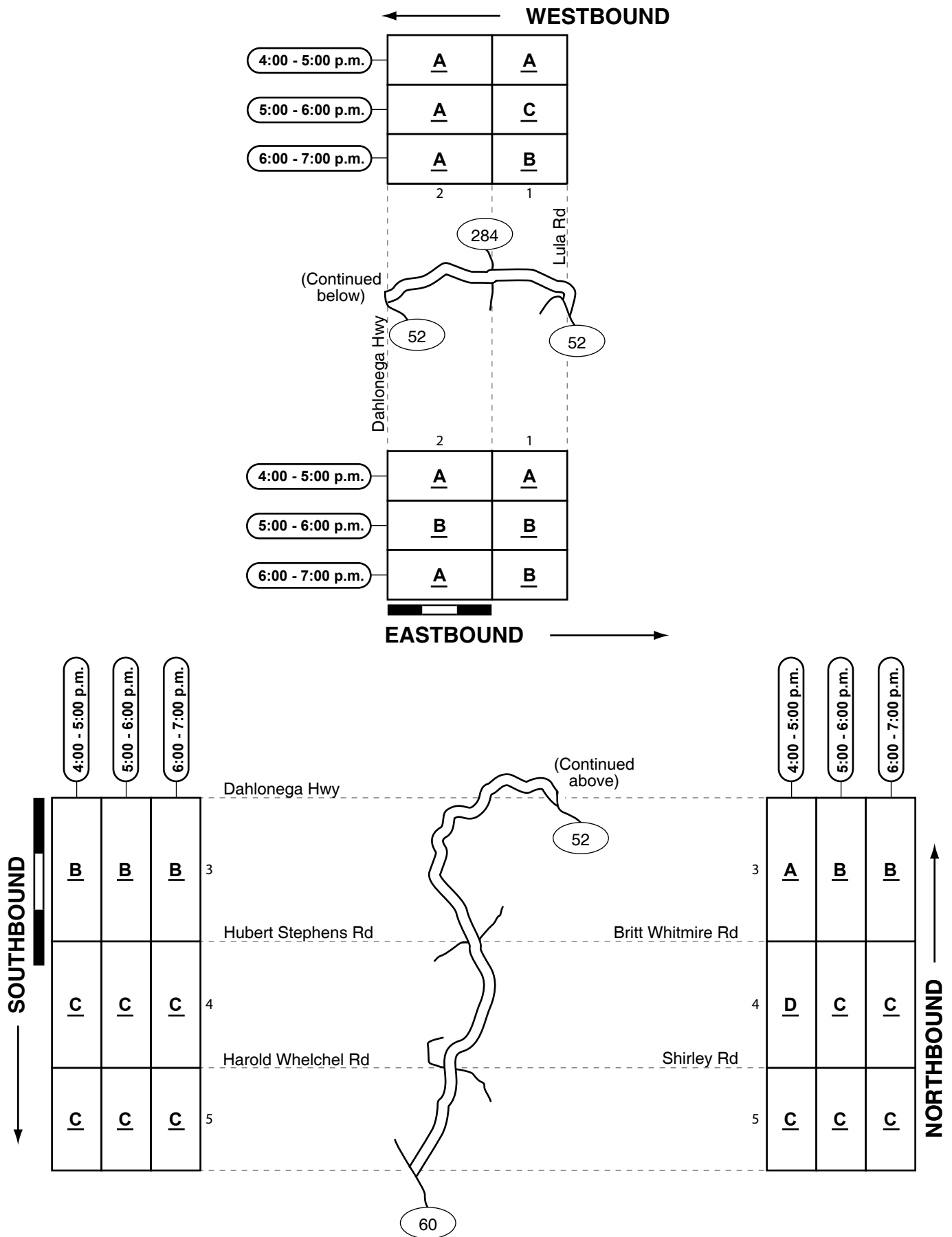
SR 283 (HALL COUNTY) - MORNING



Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 283 (HALL COUNTY) - EVENING



Traffic Quality Rating

A
Very Light

B
Light

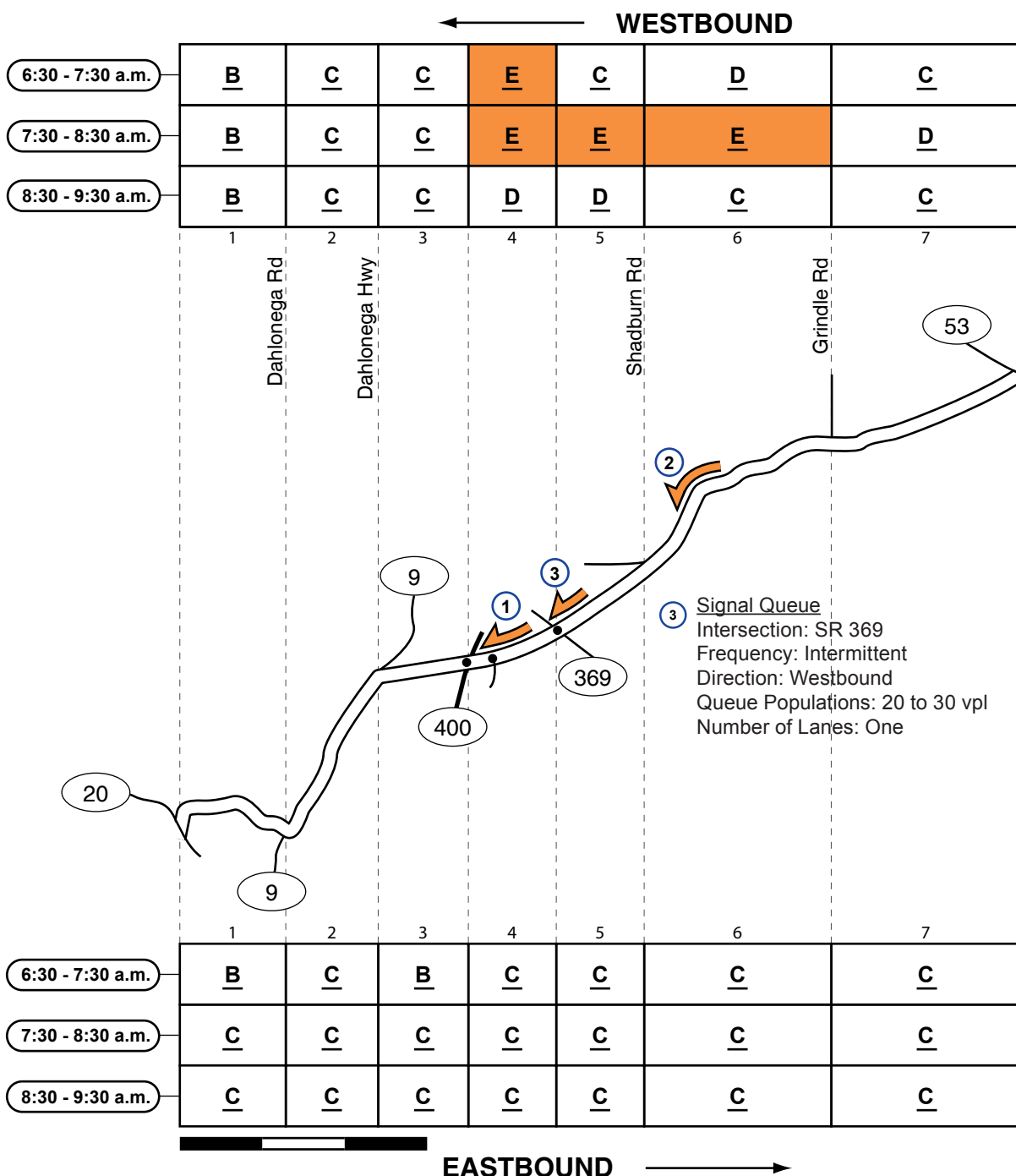
C
Moderate

D
Heavy

E
Congested

F
Severe

SR 306 (FORSYTH COUNTY) - MORNING



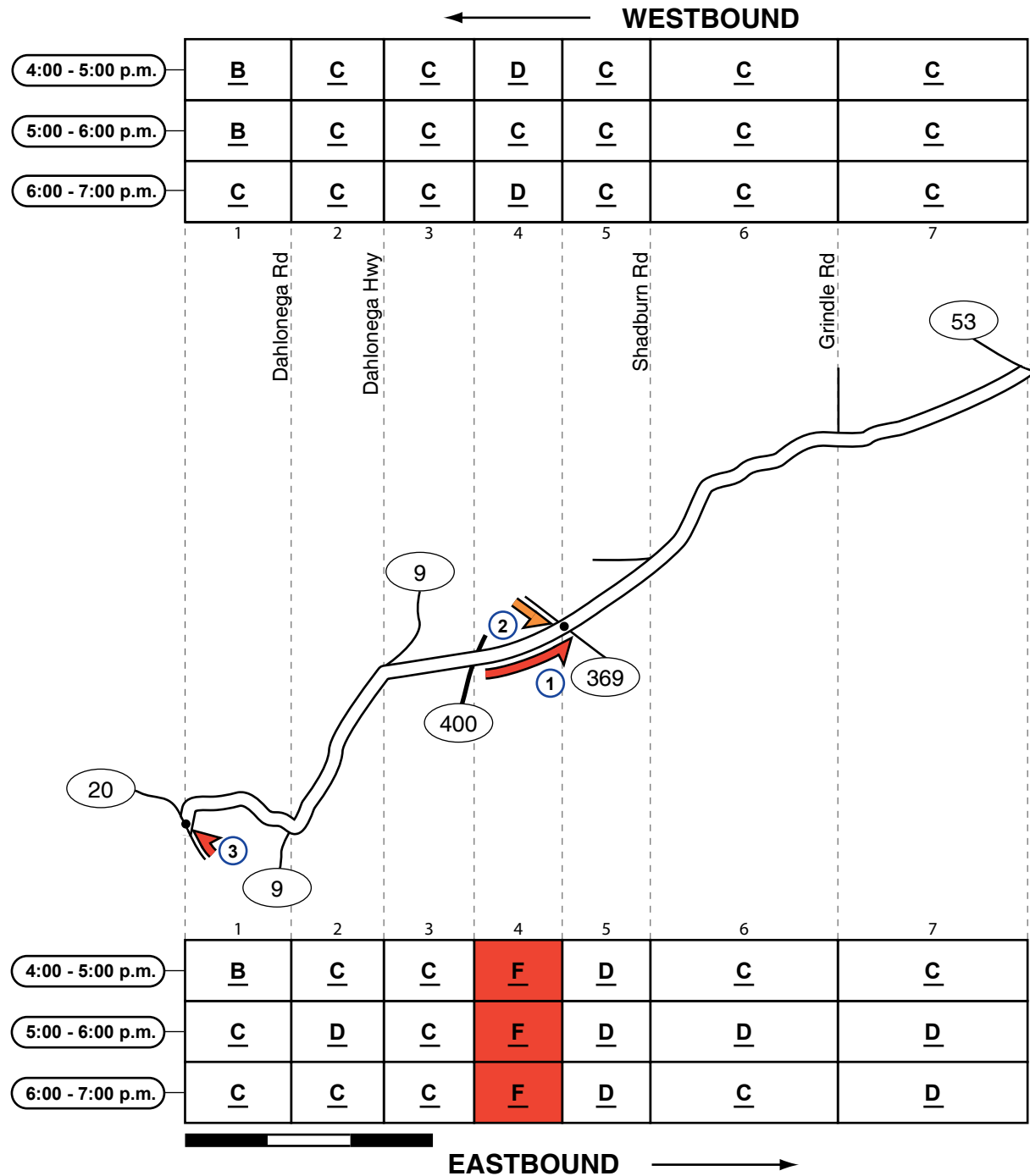
① Signal Queue
Intersections: SR 400 and closely-spaced signal east of SR 400
Frequency: Early in survey period
Direction: Westbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One

② Platoons
Location: Between Grindle Rd & Shadburn Rd
Frequency: Intermittent (middle hour)
Direction: Westbound
Platoon Populations: 25 to 45 vpl
Number of Lanes: One
Note: In each case when large westbound platoons were found traveling along this section of SR 306, school buses were at the head of the platoon.

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 306 (FORSYTH COUNTY) - EVENING



① Signal Queue
 Intersection: SR 369
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 25 to 90 vpl
 Number of Lanes: One

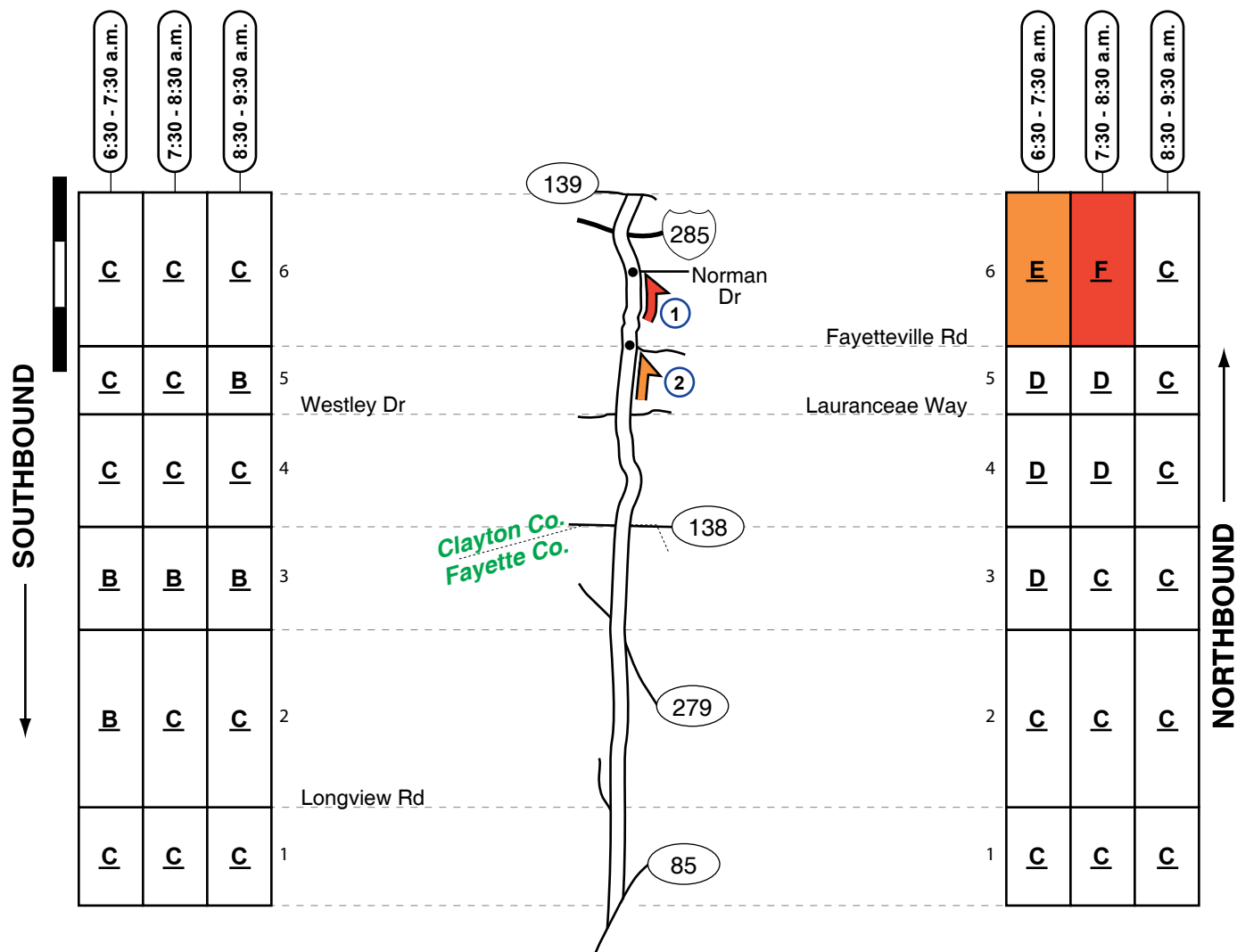
② Congested Cross Rd
 Road Name: SR 369
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

③ Congested Cross Rd
 Road Name: SR 20
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 70 vpl
 Number of Lanes: One

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 314 (CLAYTON & FAYETTE COUNTIES) - MORNING



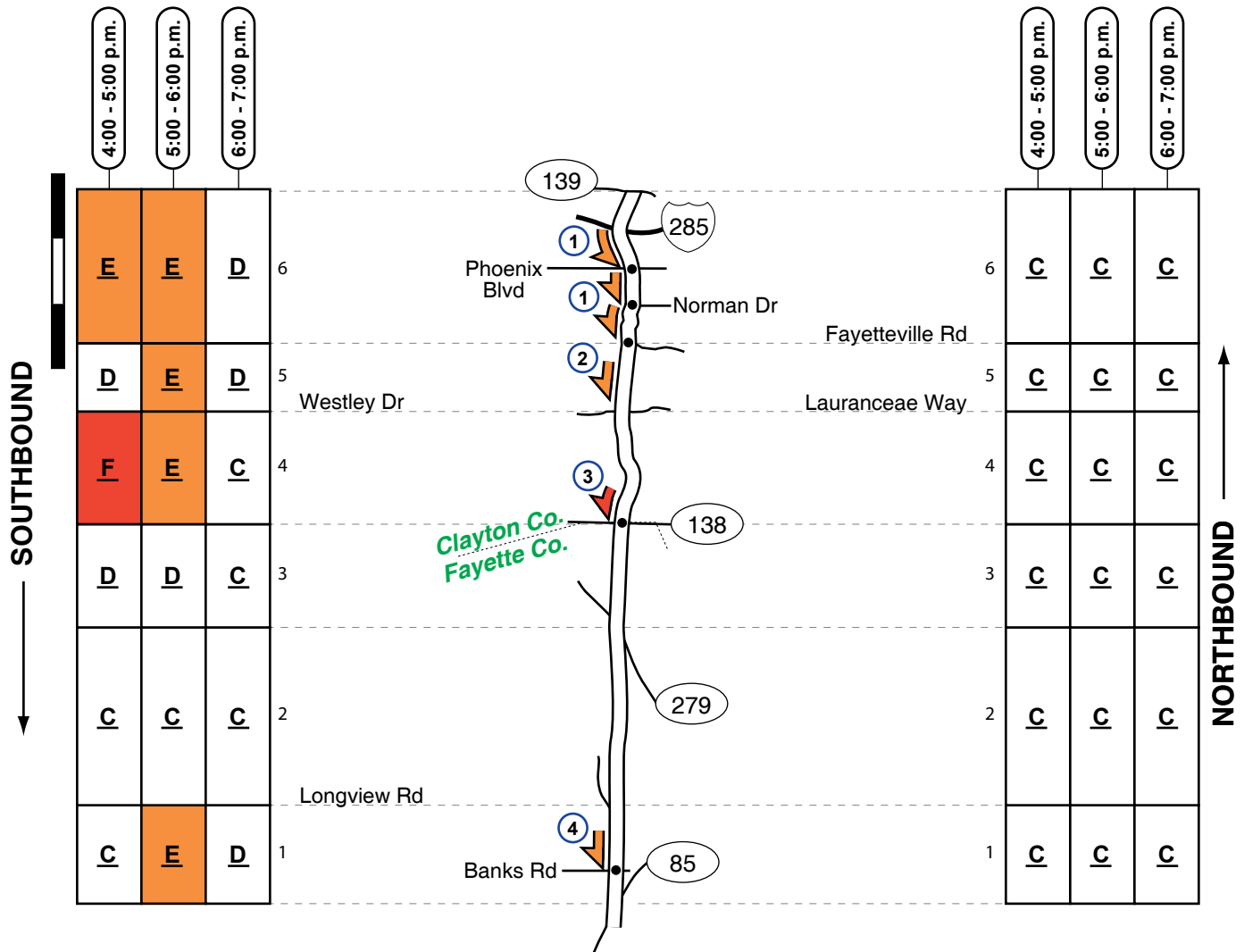
① **Signal Queue**
Intersection: Norman Dr
Frequency: Most observations before 8:30 a.m.
Direction: Northbound
Queue Populations: 20 to 80 vpl
Number of Lanes: One

② **Signal Queue**
Intersection: Fayetteville Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 314 (CLAYTON & FAYETTE COUNTIES) - EVENING



- ① **Signal Queues**
 Intersections: Phoenix Blvd, Norman Dr & Fayetteville Rd
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

- ③ **Signal Queue**
 Intersection: SR 138
 Frequency: Most observations before 6:00 p.m.
 Direction: Southbound
 Queue Populations: 20 to 45 vpl
 Number of Lanes: One

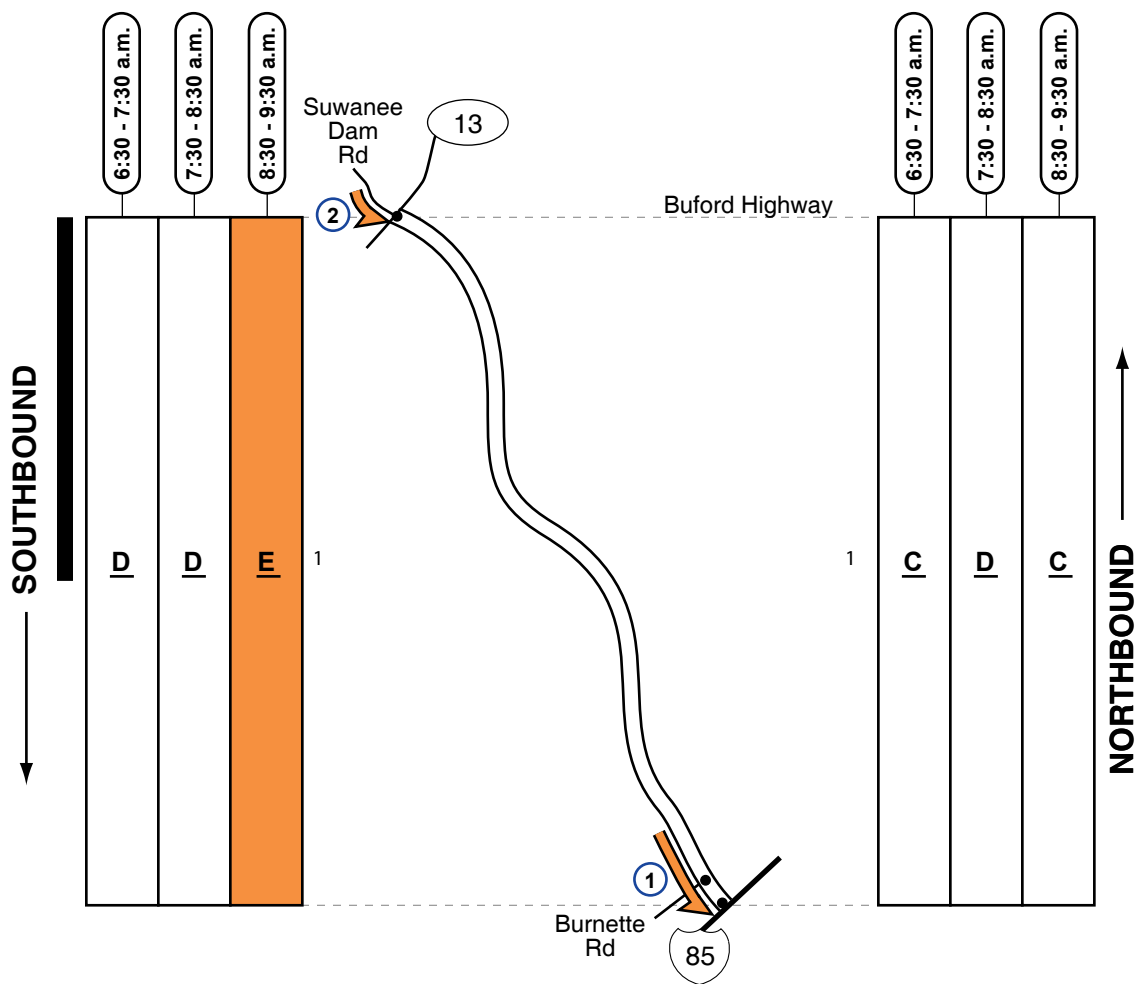
- ② **Platoons**
 Location: Between Fayetteville Rd & Westley Dr
 Frequency: Middle hour
 Direction: Southbound
 Platoon Populations: 25 to 30 vpl
 Number of Lanes: One

- ④ **Signal Queue**
 Intersection: Banks Rd
 Frequency: Middle hour
 Direction: Southbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: Two

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 317 (GWINNETT COUNTY) - MORNING



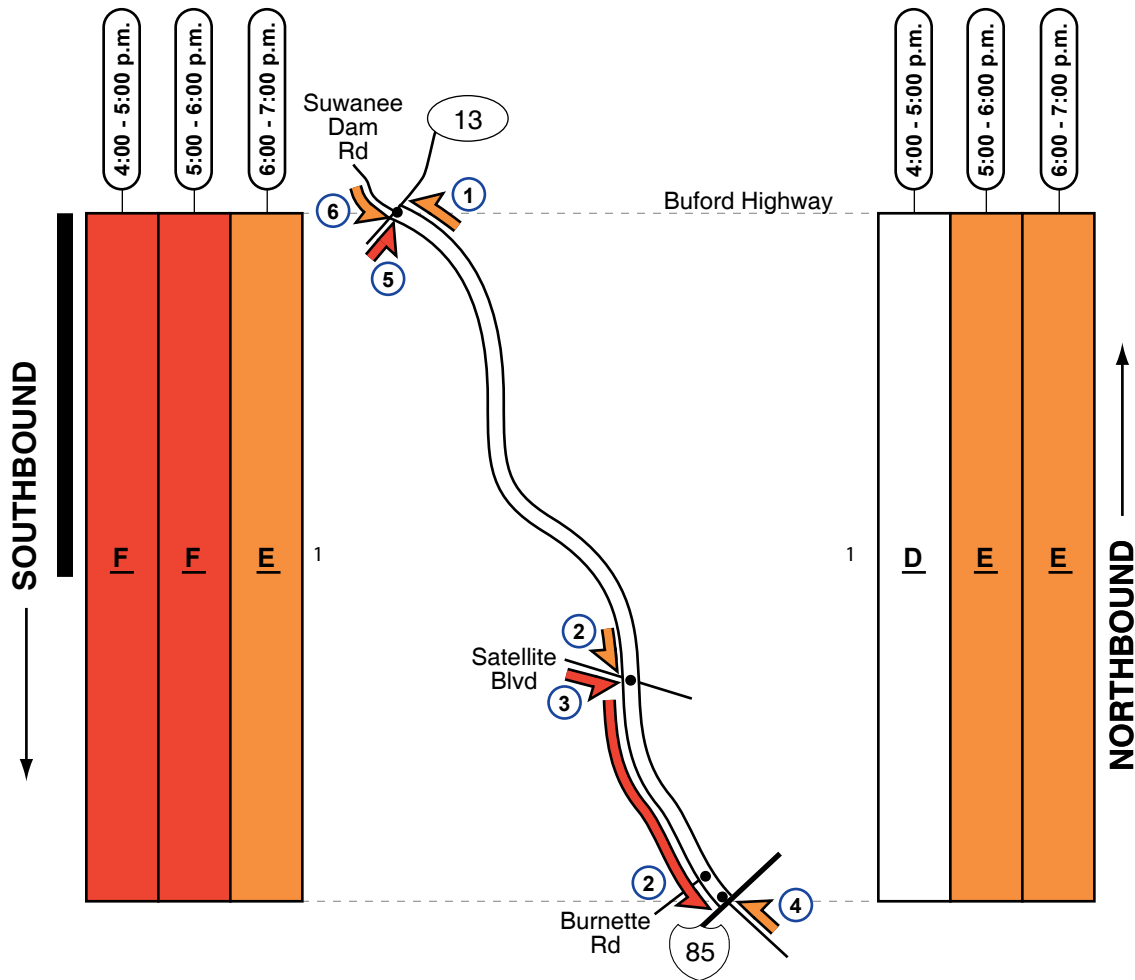
① Signal Queues
Intersections: Burnette Rd & I-85
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 55 vpl
Number of Lanes: Two

② Congested Cross Road
Road Name: Suwanee Dam Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 317 (GWINNETT COUNTY) - EVENING



- ① Signal Queue
Intersection: SR 13
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: Two

- ④ Signal Queue
Intersection: I-85
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

- ② Signal Queues
Intersections: Satellite Blvd / Burnette Rd & I-85
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 90 vpl
Number of Lanes: Two

- ⑤ Congested Cross Road
Road Name: SR 13
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 100 vpl
Number of Lanes: One

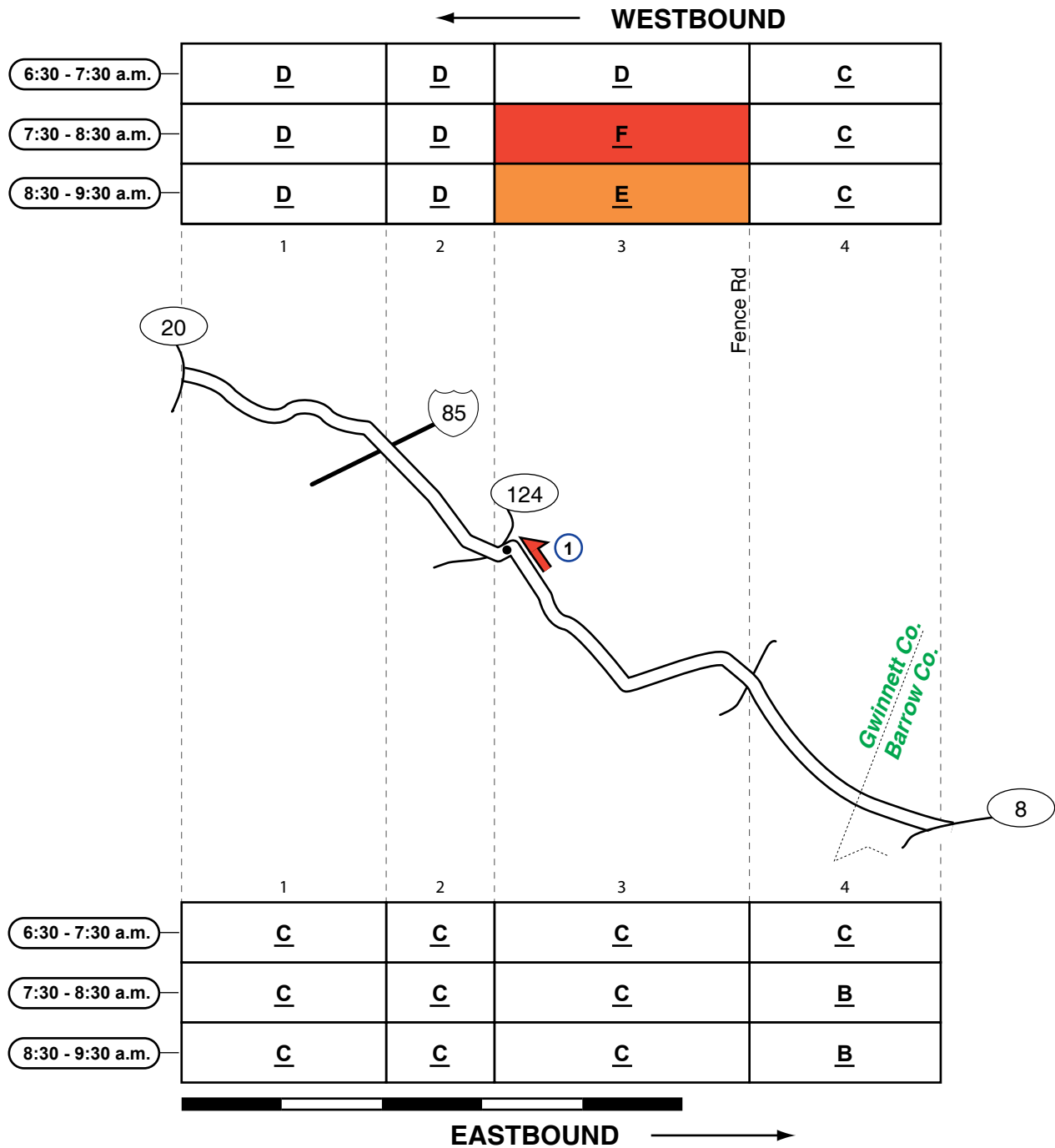
- ③ Congested Cross Road
Road Name: Satellite Blvd
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 55 vpl
Number of Lanes: Two

- ⑥ Congested Cross Road
Road Name: Suwanee Dam Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 324 (GWINNETT & BARROW COUNTIES) - MORNING

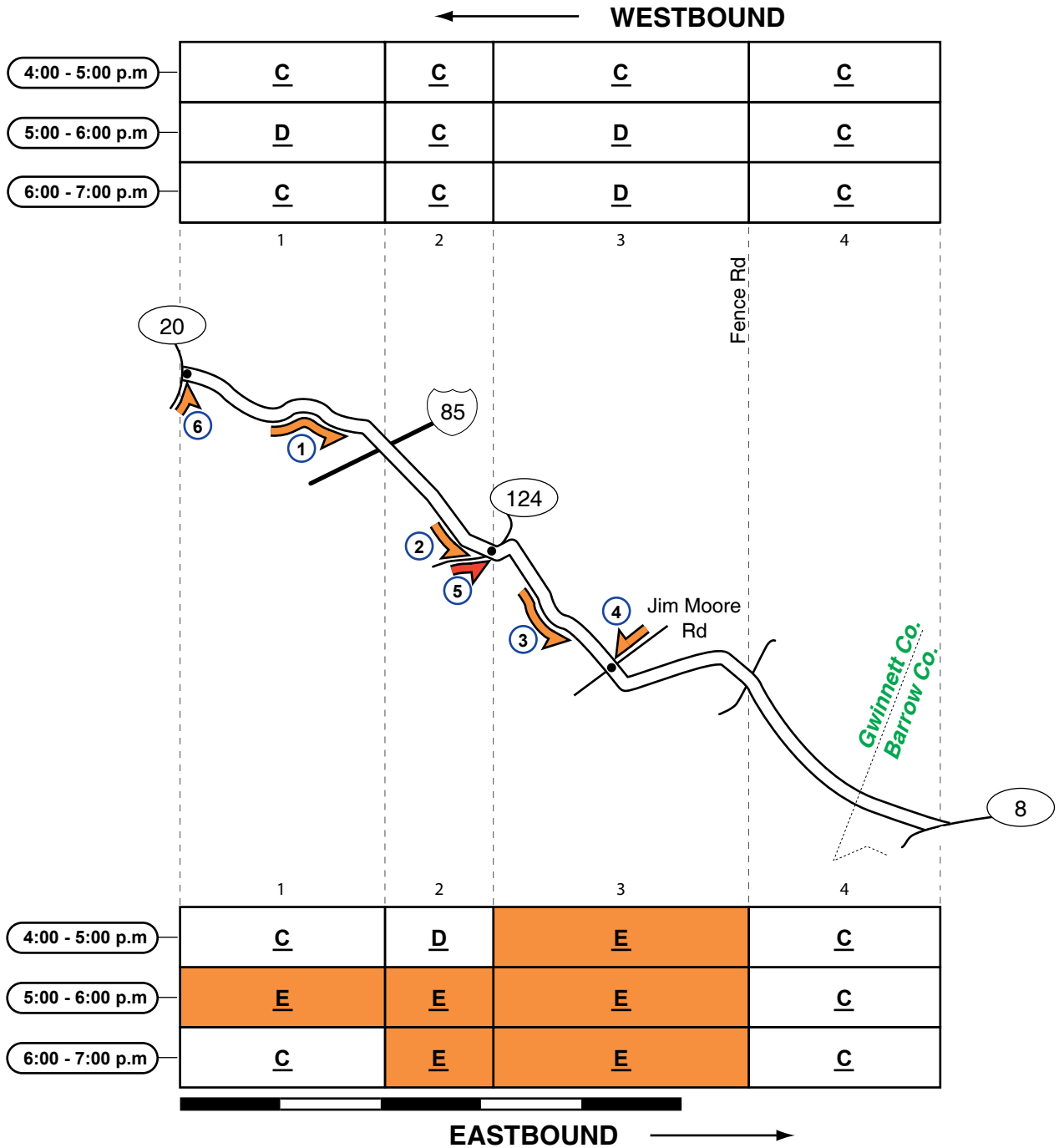


- ① Signal Queue
 Intersection: SR 124
 Frequency: Most observations
 Direction: Westbound
 Queue Populations: 20 to 45 vpl
 Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 324 (GWINNETT & BARROW COUNTIES) - EVENING



1 Platoons

Location: Between SR 20 & I-85
 Frequency: Middle hour
 Direction: Eastbound
 Platoon Populations: 25 to 35 vpl
 Number of Lanes: One

2 Signal Queue

Intersection: SR 124
 Frequency: Most observations after 5:00 p.m.
 Direction: Eastbound
 Queue Populations: 30 to 40 vpl
 Number of Lanes: One

3 Platoons

Location: Between SR 124 & Fence Rd
 Frequency: Most observations
 Direction: Eastbound
 Platoon Populations: 25 to 40 vpl
 Number of Lanes: One

4 Congested Cross Road

Road Name: Jim Moore Rd
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One

5 Congested Cross Road

Road Name: SR 124
 Frequency: Most observations between 4:30 and 6:30 p.m.
 Direction: Northbound
 Queue Populations: 25 to 70 vpl
 Number of Lanes: One

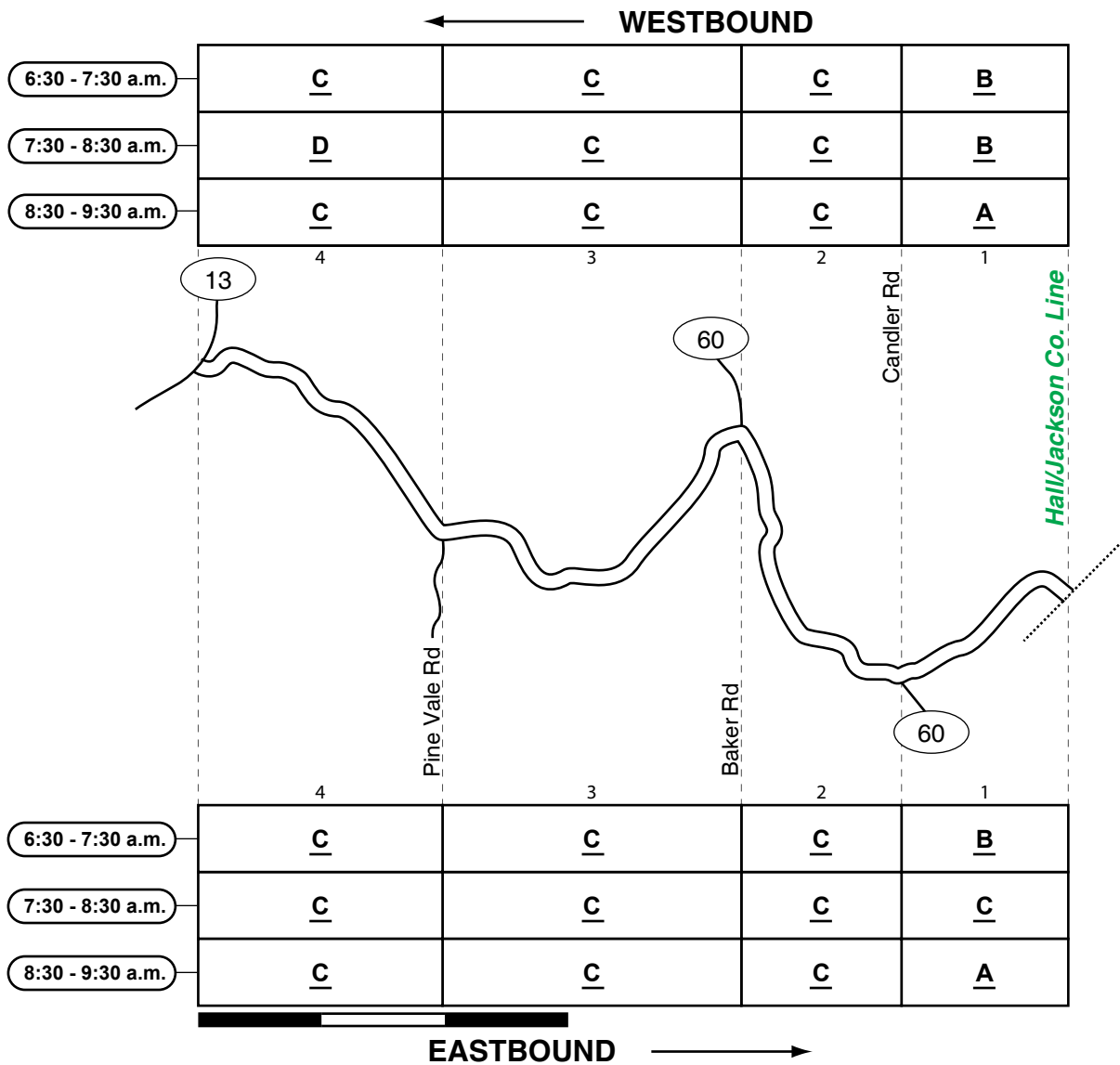
6 Congested Cross Road

Road Name: SR 20
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: Two

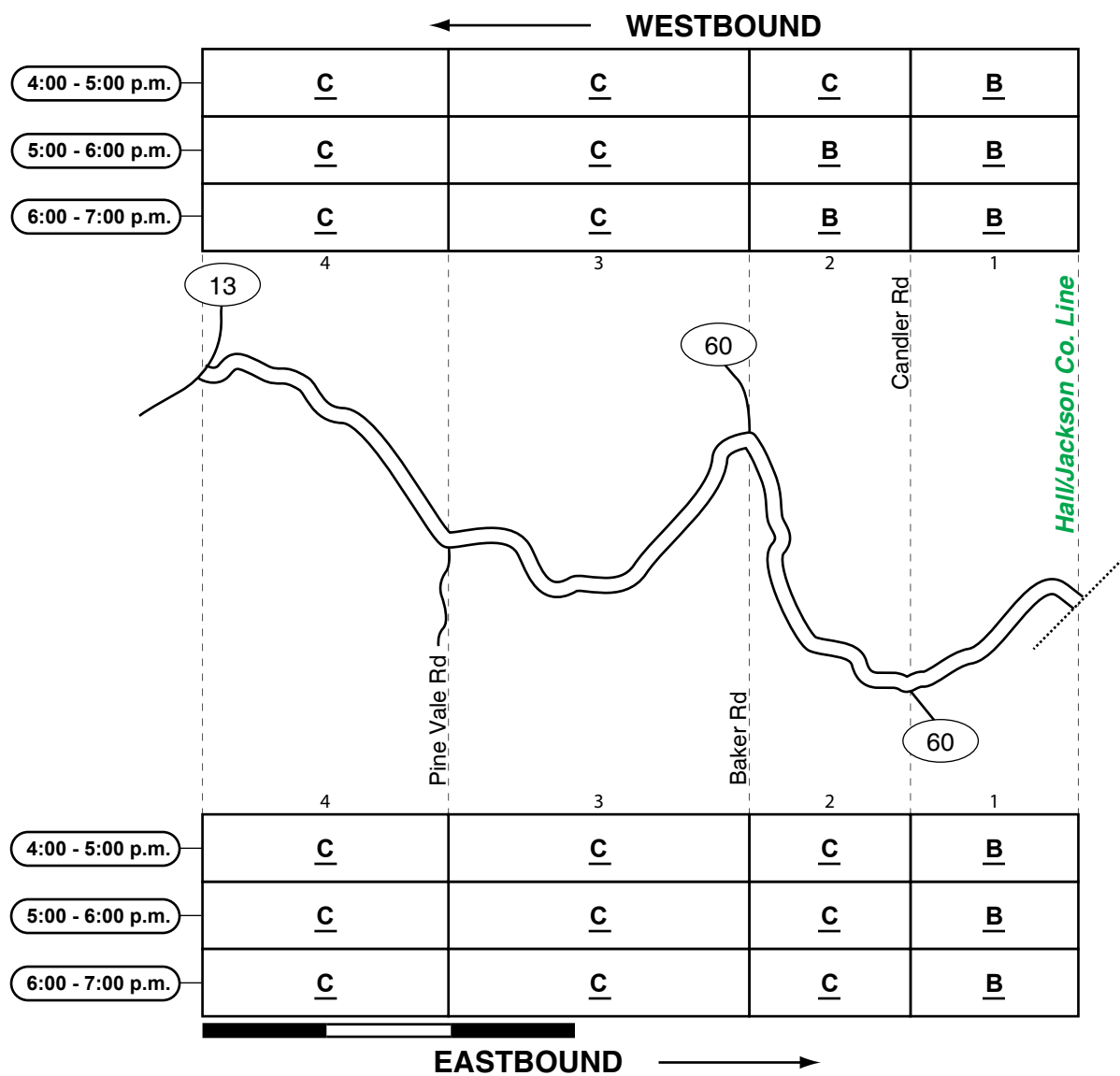
Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

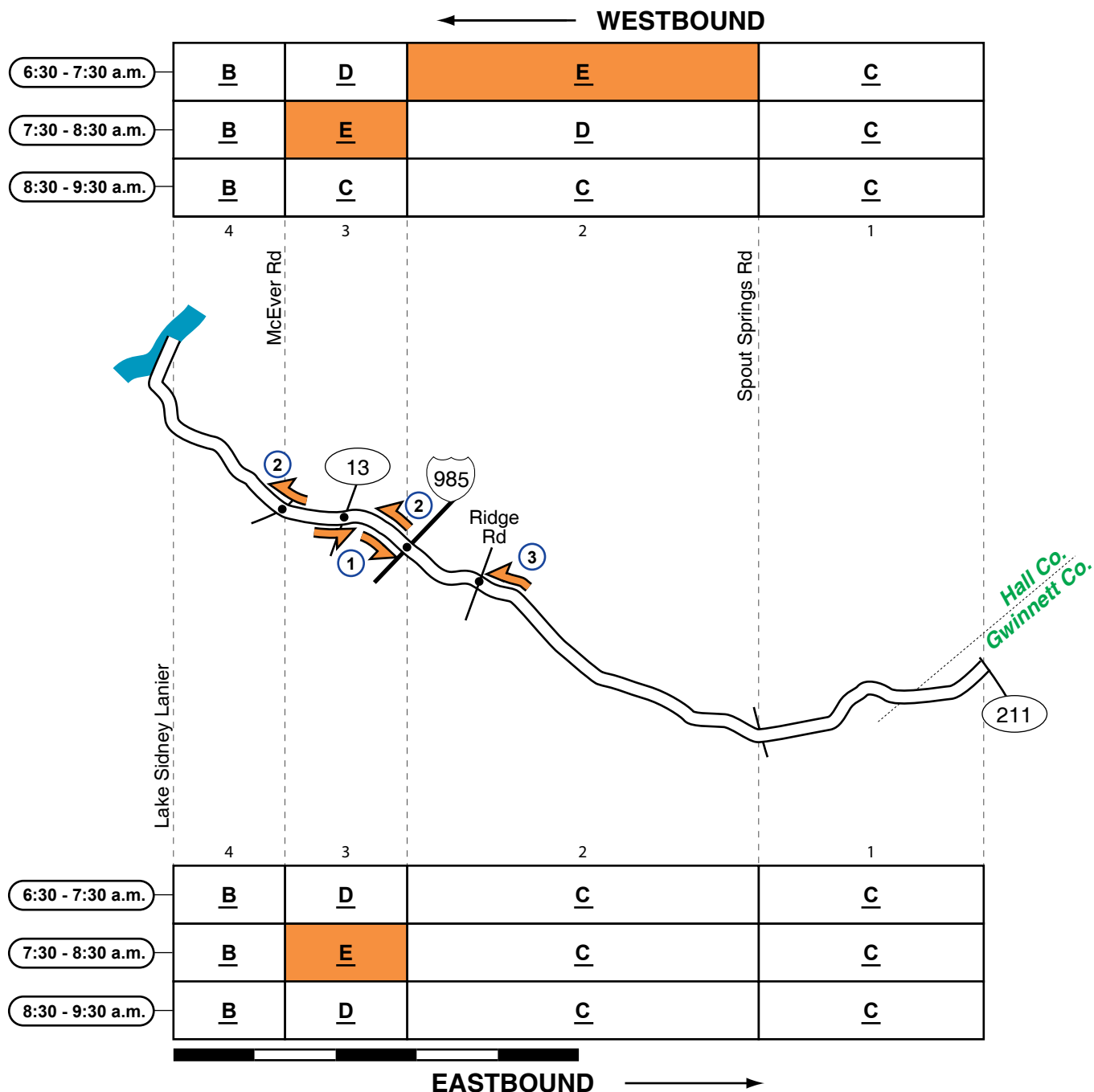
SR 332 (HALL COUNTY) - MORNING



SR 332 (HALL COUNTY) - EVENING



SR 347 (HALL & GWINNETT COUNTIES) - MORNING



① **Platoons**
Location: Vicinity of signals at SR 13 and I-985
Frequency: Middle hour
Direction: Eastbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One

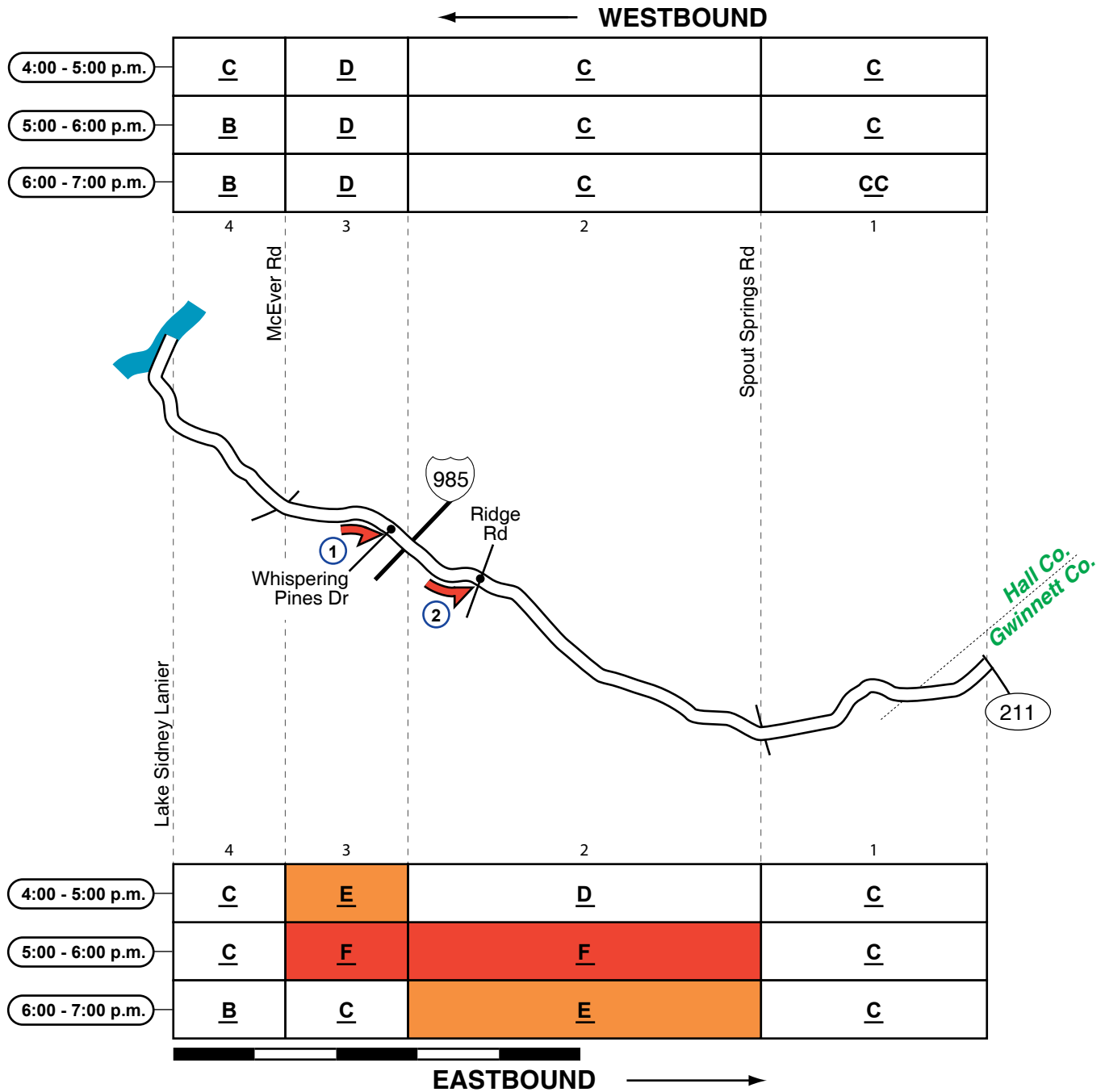
② **Platoons**
Location: Between I-985 & McEver Rd
Frequency: Middle hour
Direction: Westbound
Platoon Populations: 25 to 40 vpl
Number of Lanes: One

③ **Signal Queue**
Intersection: Ridge Rd
Frequency: Early in survey period
Direction: Westbound
Queue Populations: 20 to 65 vpl
Number of Lanes: One

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 347 (HALL & GWINNETT COUNTIES) - EVENING



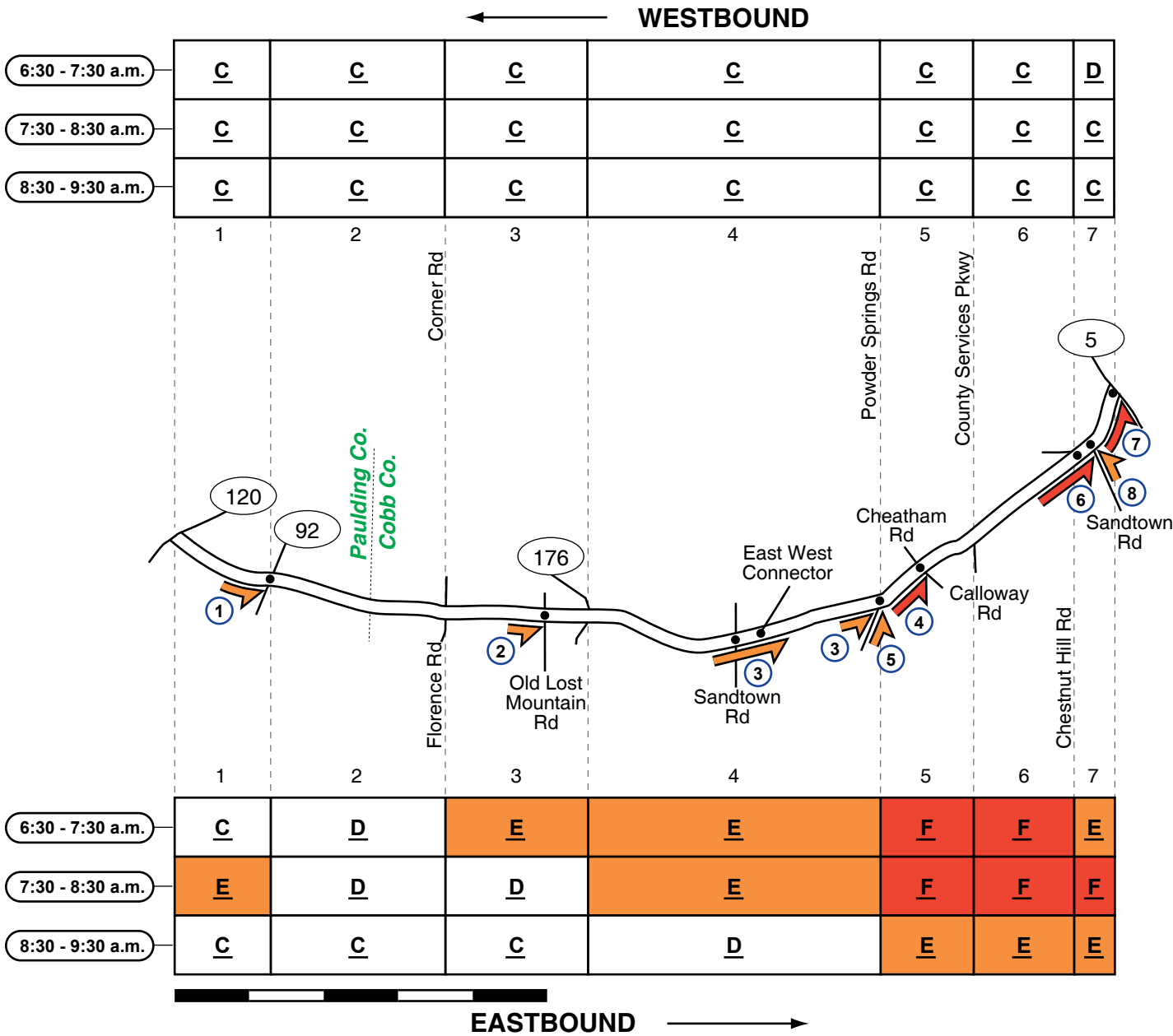
① Signal Queue
 Intersection: Whispering Pines Dr
 Frequency: Most observations before 6:00 p.m.
 Direction: Eastbound
 Queue Populations: 25 to 60 vpl
 Number of Lanes: One

② Signal Queue
 Intersection: Ridge Rd
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 65 vpl
 Number of Lanes: One

Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 360 (PAULDING & COBB COUNTIES) - MORNING

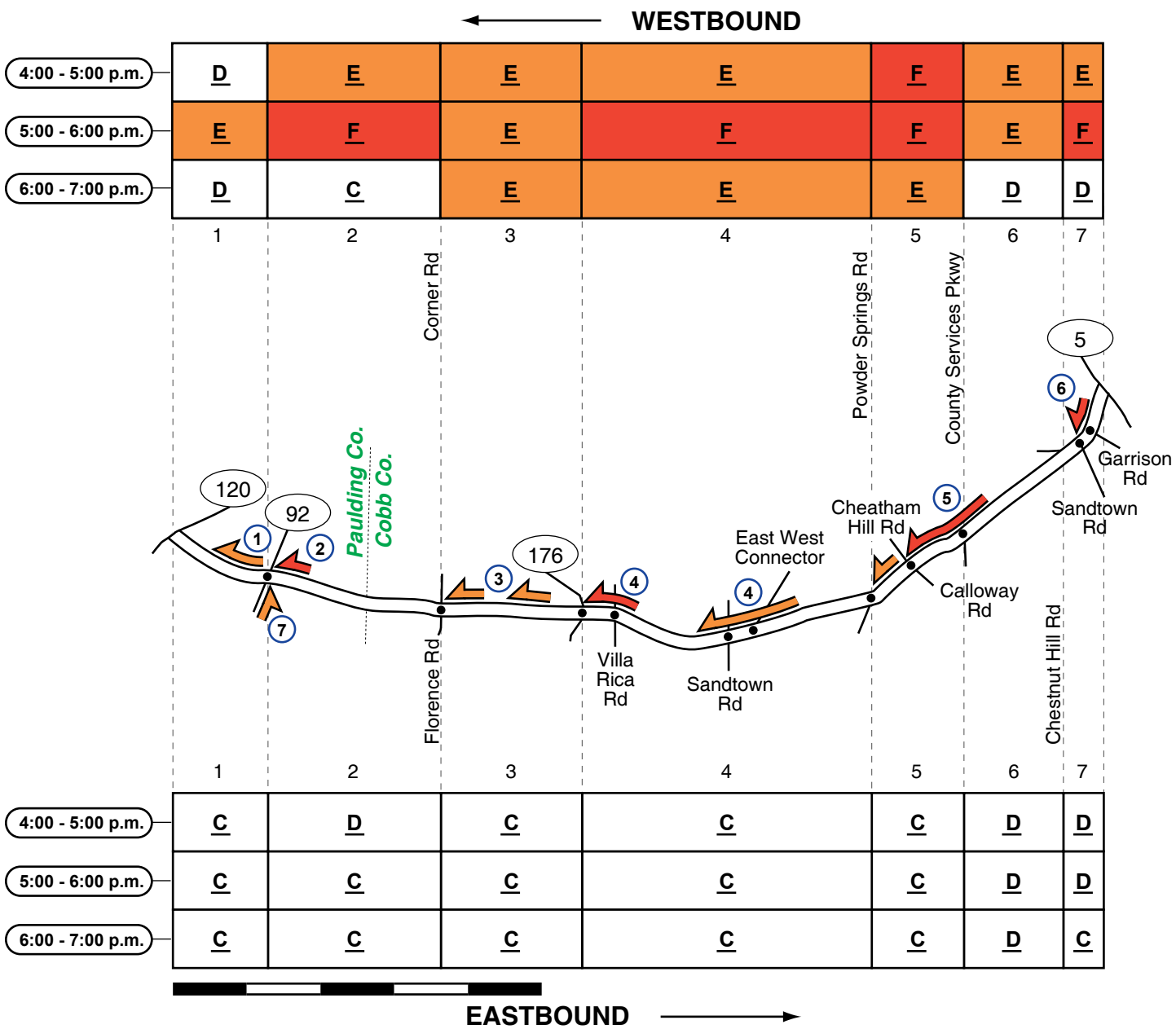


SR 360 (PAULDING & COBB COUNTIES) - MORNING

- ① Signal Queue
Intersection: SR 92
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ② Signal Queue
Intersection: Old Lost Mountain Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ③ Platoons
Location: Vicinity of signals at Sandtown Rd & East West Connector
Frequency: Early in survey period
Direction: Eastbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two

Signal Queue
Intersection: Powder Springs Rd
Frequency: Early in survey period
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: Cheatham Rd/Callaway Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 80 vpl
Number of Lanes: Two
Note: In some cases, eastbound congestion at Cheatham Rd/Callaway Rd extended back through the upstream signal at Powder Springs Rd.
- ⑤ Congested Cross Road
Road Name: Powder Springs Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two
Note: In some cases, downstream congestion on SR 360 backed through the signal at Powder Springs Rd (head of queue was on SR 360 at Cheatham Rd).
- ⑥ Signal Queues
Intersections: Chestnut Hill Rd & Sandtown Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 130 vpl
Number of Lanes: Two
Note: During the peak period, extensive eastbound congestion was found approaching the closely spaced signals at Chestnut Hill Rd and Sandtown Rd; congestion often extended for over one mile.
- ⑦ Signal Queue
Intersection: SR 5
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 75 vpl
Number of Lanes: Two
- ⑧ Congested Cross Road
Road Name: Sandtown Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two (queue in right lane of two - right-turn lane onto SR 360)

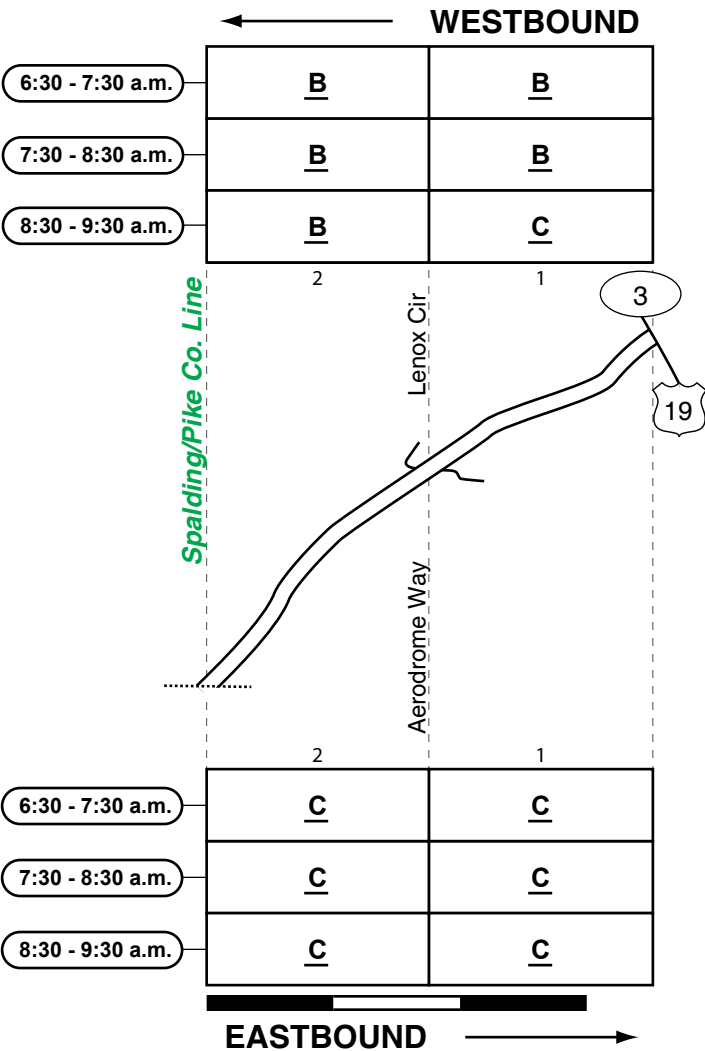
SR 360 (PAULDING & COBB COUNTIES) - EVENING



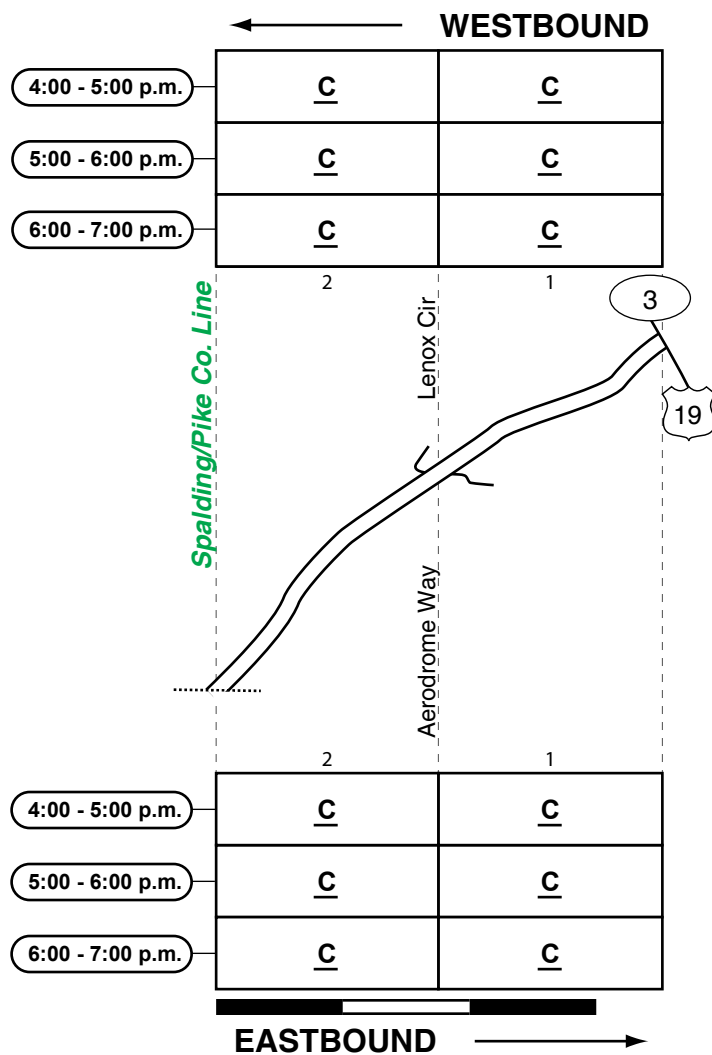
SR 360 (PAULDING & COBB COUNTIES) - EVENING

- ① Platoons
Location: Between SR 92 & SR 120
Frequency: Middle hour
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One
- ② Signal Queue
Intersection: SR 92
Frequency: Most observations before 6:00 p.m.
Direction: Westbound
Queue Populations: 20 to 90 vpl
Number of Lanes: One
- ③ Signal Queue
Intersection: Florence Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- Platoons
Location: Between SR 176 & Florence Rd
Frequency: Most observations
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One
- ④ Signal Queue
Intersection: SR 176
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 70 vpl
Number of Lanes: Two
Note: In some cases, westbound congestion at SR 176 extended back through the upstream signal at Villa Rica Rd.
- Platoons
Location: Vicinity signals at Sandtown Rd & East West Connector
Frequency: Most observations
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ⑤ Signal Queue
Intersection: Cheatham Hill Rd/Callaway Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 150 vpl
Number of Lanes: Two
Note: During the peak period, westbound congestion at Cheatham Hill Rd/Callaway Rd typically extended back through several upstream signals (for a distance of one to two miles).
- ⑥ Signal Queues
Intersections: Sandtown Rd & Garrison Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 100 vpl
Number of Lanes: Two
Note: During the peak period (4:00-5:30 p.m.), westbound congestion at Sandtown Rd typically extended back through the upstream signal at Garrison Rd.
- ⑦ Congested Cross Road
Road Name: SR 92
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

SR 362 (SPALDING COUNTY) - MORNING



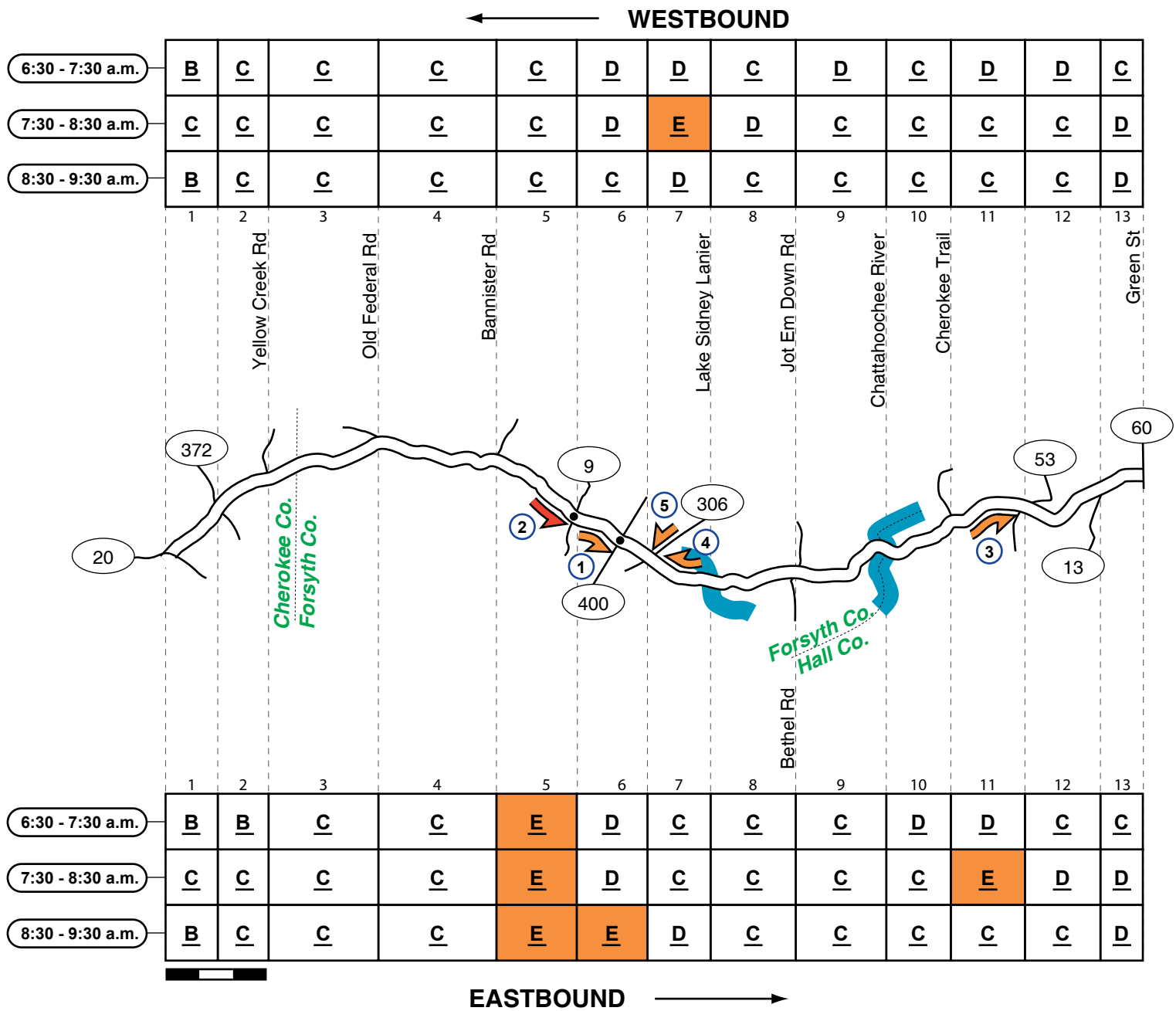
SR 362 (SPALDING COUNTY) - EVENING



Traffic Quality Rating

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 369 (CHEROKEE/FORSYTH & HALL COUNTIES) - MORNING



SR 369 (CHEROKEE/FORSYTH & HALL COUNTIES) - MORNING

- ① Signal Queue
 Intersection: SR 400
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 70 vpl
 Number of Lanes: One
- ② Signal Queue
 Intersection: SR 9
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One
- ③ Platoons
 Location: Between Cherokee Trail & SR 53
 Frequency: Middle hour
 Direction: Eastbound
 Platoon Populations: 25 to 45 vpl
 Number of Lanes: One
- ④ Platoons
 Location: Between Lake Sidney Lanier and SR 306
 Frequency: Intermittent
 Direction: Westbound
 Platoon Populations: 25 to 30 vpl
 Number of Lanes: One
- ⑤ Congested Cross Road
 Road Name: SR 306
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

Heavy

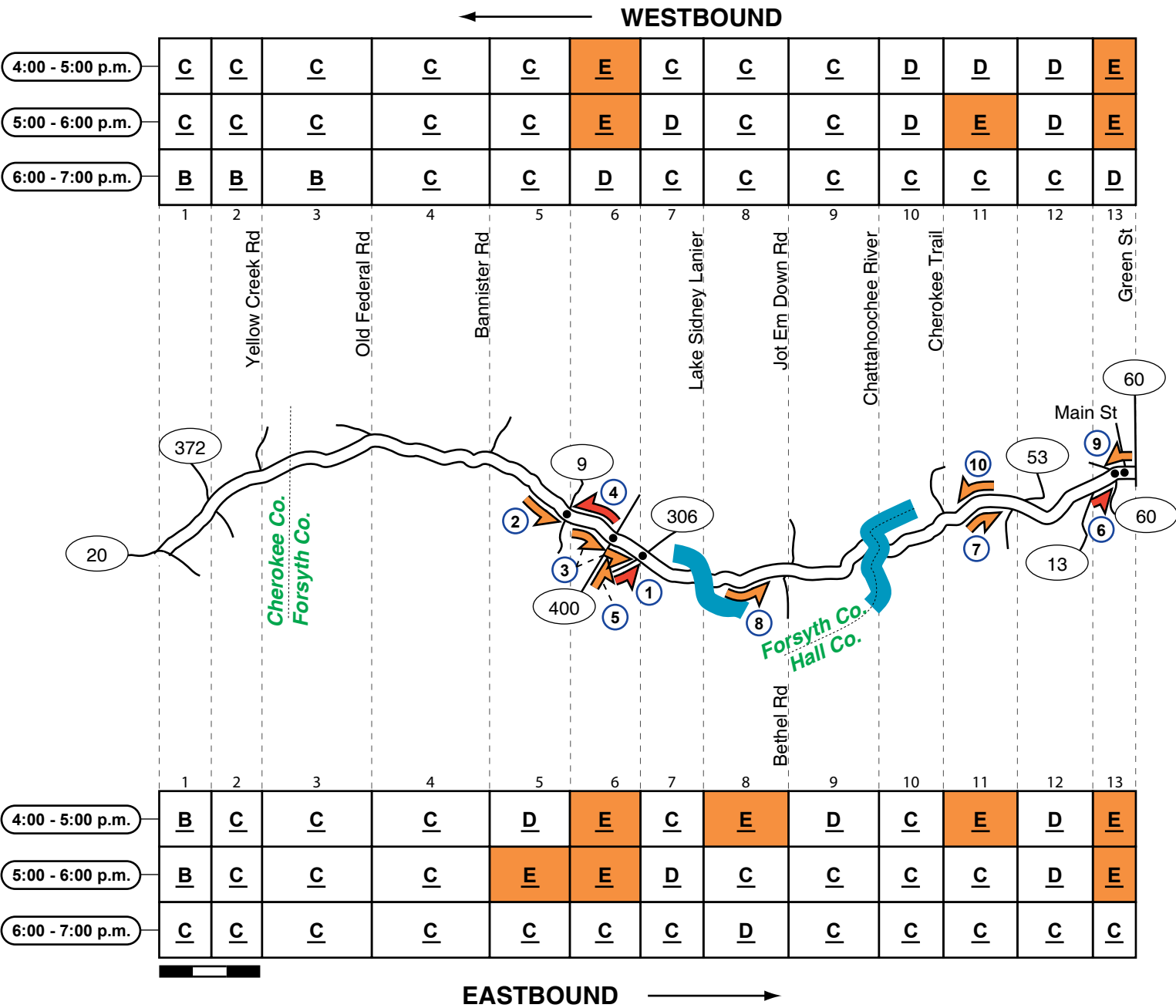
E

Congested

F

Severe

SR 369 (CHEROKEE/FORSYTH & HALL COUNTIES) - EVENING



SR 369 (CHEROKEE/FORSYTH & HALL COUNTIES) - EVENING

① Congested Cross Road

Road Name: SR 306
Frequency: Most observations
Direction: Eastbound
Queue Populations: 25 to 90 vpl
Number of Lanes: One

② Signal Queue

Intersection: SR 9
Frequency: Middle Hour
Direction: Eastbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One

③ Signal Queues

Intersection: SR 400
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One

Intersection: SR 306
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One

④ Signal Queue

Intersection: SR 9
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One

⑤ Congested Cross Road

Road Name: SR 400
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

⑥ Signal Queue

Intersection: SR 60
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two

⑦ Platoons

Location: Between Cherokee Trail & SR 53
Frequency: Early in survey period
Direction: Eastbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One

⑧ Platoons

Location: Between Lake Sidney Lanier & Bethel Rd
Frequency: Early in survey period
Direction: Eastbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: One

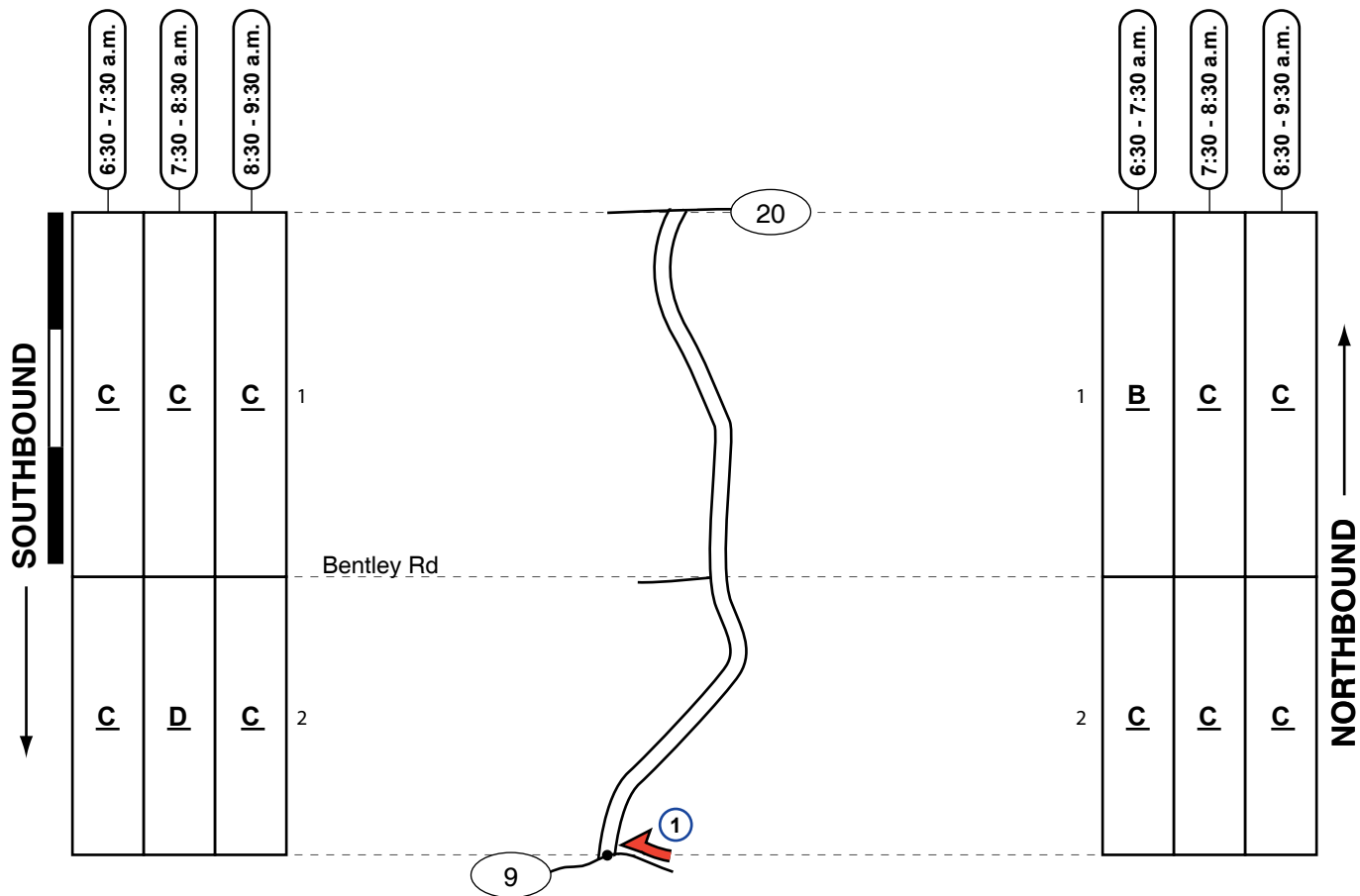
⑨ Signal Queues

Intersections: Main St & SR 60/John Morrow Pkwy
Frequency: Middle hour (intermittent)
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

⑩ Platoons

Location: Between SR 53 & Cherokee Trail
Frequency: Middle hour (intermittent)
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: One

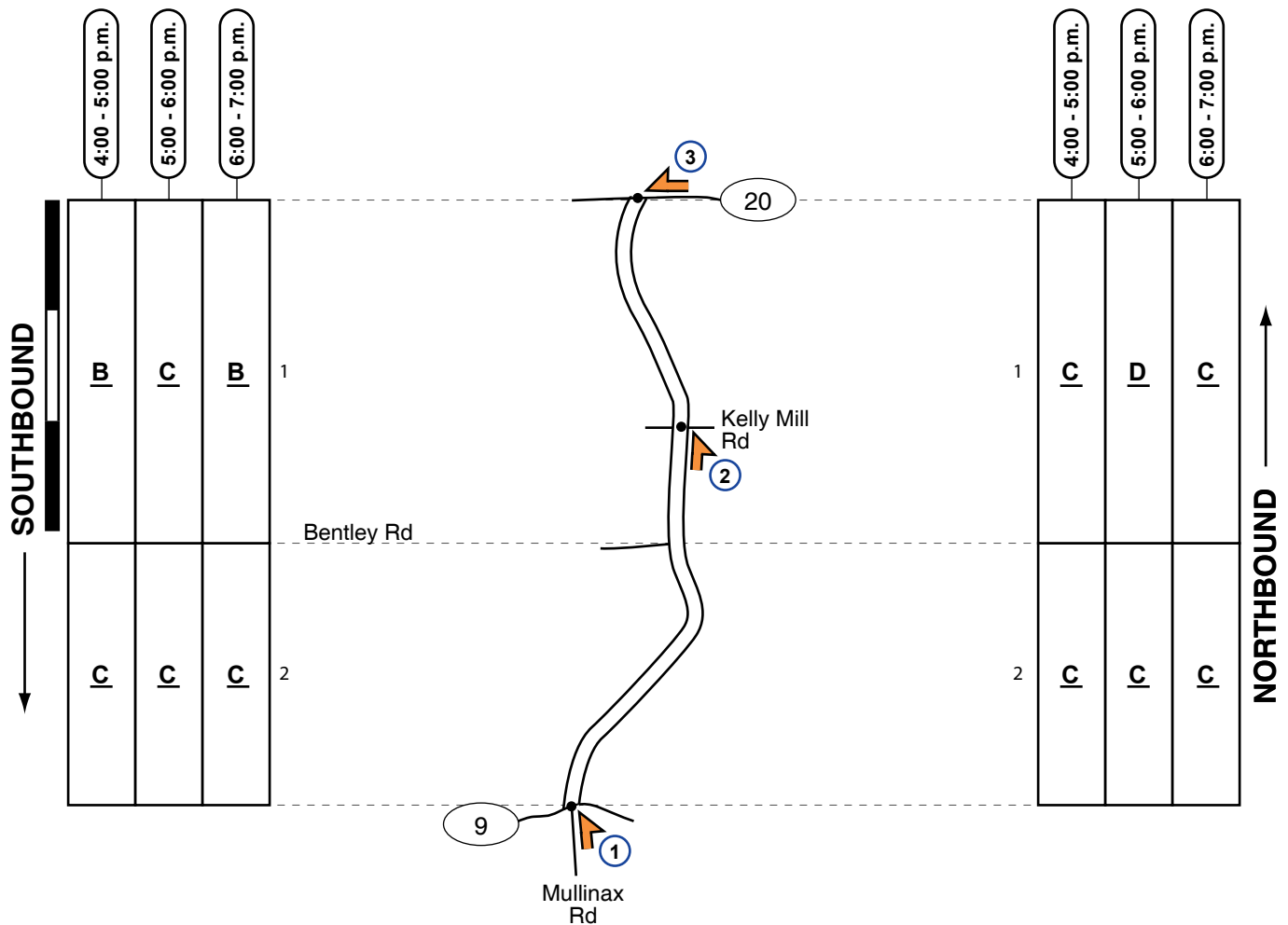
SR 371 (FORSYTH COUNTY) - MORNING



- 1

Congested Cross Road
 Road Name: SR 9
 Frequency: Middle hour
 Direction: Southbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: One

SR 371 (FORSYTH COUNTY) - EVENING



① Congested Cross Road
Road Name: Mullinax Rd
Frequency: Middle hour
Direction: Northbound
Queue Population: 20 to 25 vpl
Number of Lanes: One

② Signal Queue
Intersection: Kelly Mill Rd
Frequency: One time only
Direction: Northbound
Queue Population: 20 to 25 vpl
Number of Lanes: One

③ Congested Cross Road
Intersection: SR 20
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One

Traffic Quality Rating

A
Very Light

B
Light

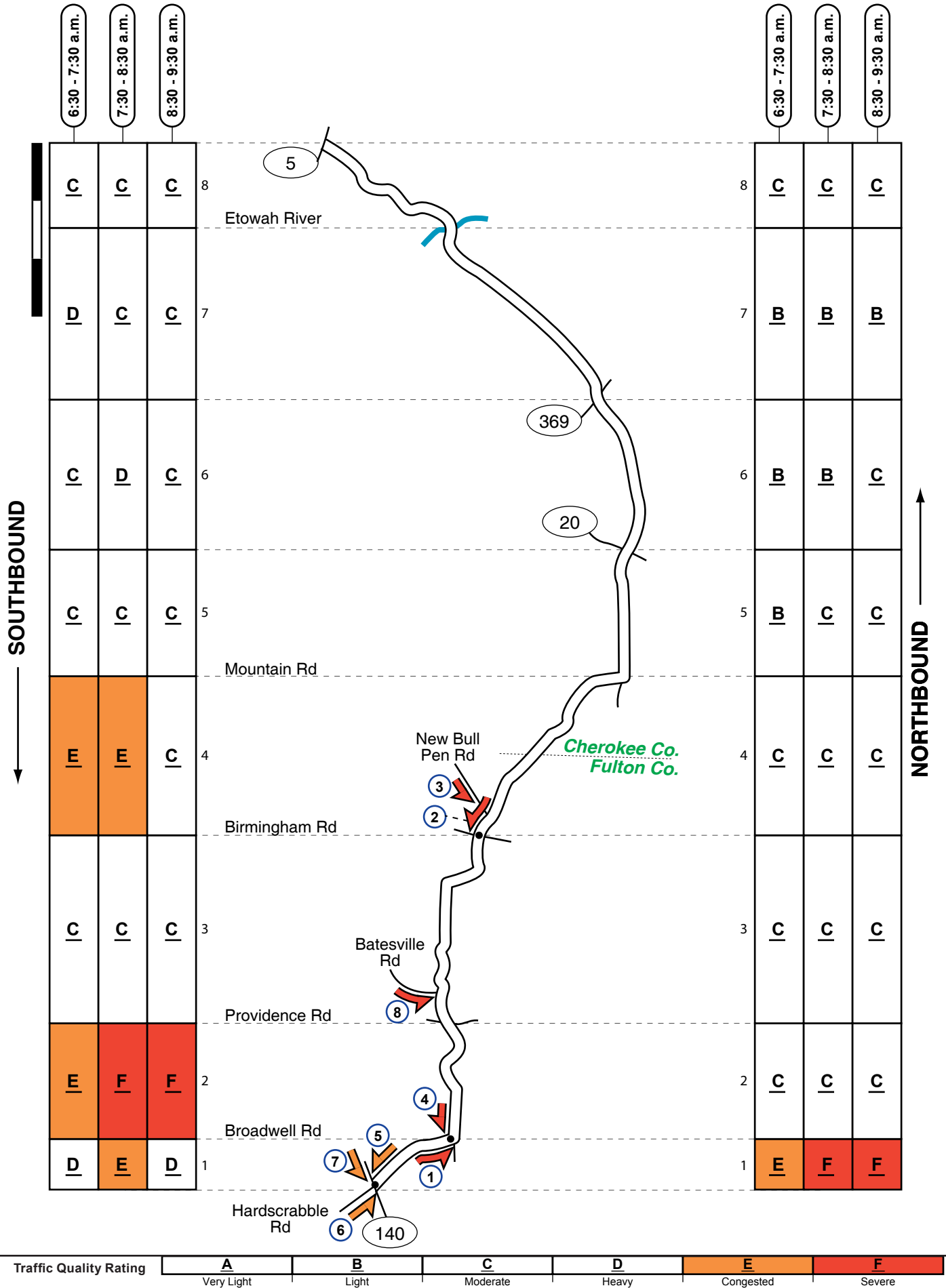
C
Moderate

D
Heavy

E
Congested

F
Severe

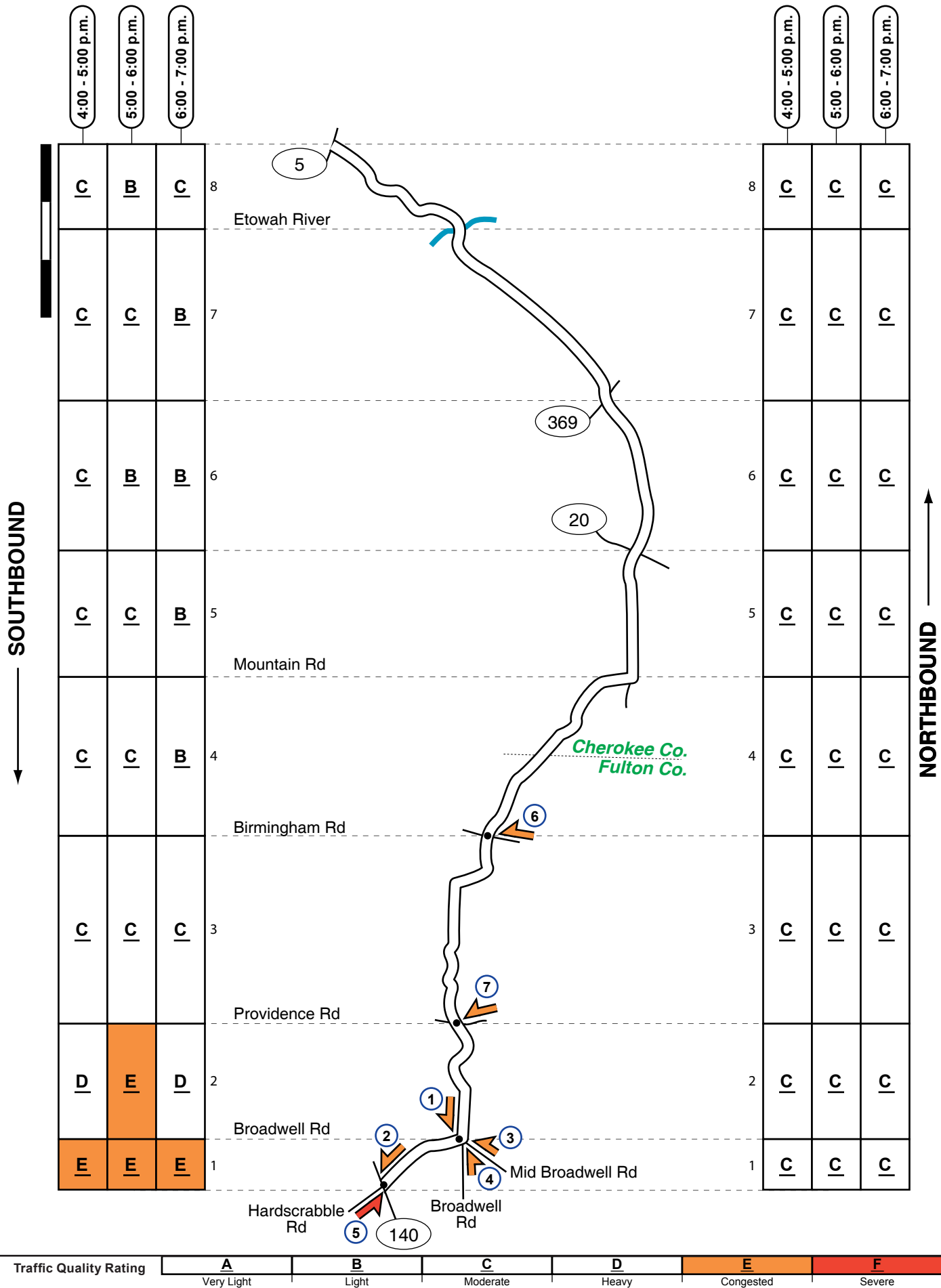
SR 372 (CHEROKEE & FULTON COUNTIES) - MORNING



SR 372 (CHEROKEE & FULTON COUNTIES) - MORNING

- ① Signal Queue
Intersection: Broadwell Rd
Frequency: Most observations
Direction: Northbound
Queue Populations: 25 to 70 vpl
Number of Lanes: One
- ② Signal Queue
Intersection: Birmingham Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 25 to 50 vpl
Number of Lanes: One
- ③ Congested Cross Road
Road Name: New Bull Pen Rd
Frequency: Most observations
Direction: Southbound
Queue Population: 20 to 50 vpl
Number of Lanes: One
- ④ Signal Queue
Intersection: Broadwell Rd
Frequency: Most observations
Direction: Southbound
Queue Populations: 30 to 85 vpl
Number of Lanes: One
- ⑤ Signal Queue
Intersection: SR 140
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑥ Congested Cross Road
Road Name: Hardscrabble Rd
Frequency: Intermittent
Direction: Northbound
Queue Population: 20 to 30 vpl
Number of Lanes: One
- ⑦ Congested Cross Road
Road Name: SR 140
Frequency: Intermittent
Direction: Southbound
Queue Population: 20 to 35 vpl
Number of Lanes: One
- ⑧ Congested Cross Road
Road Name: Batesville Rd
Frequency: Intermittent
Direction: Eastbound
Queue Population: 20 to 65 vpl
Number of Lanes: One

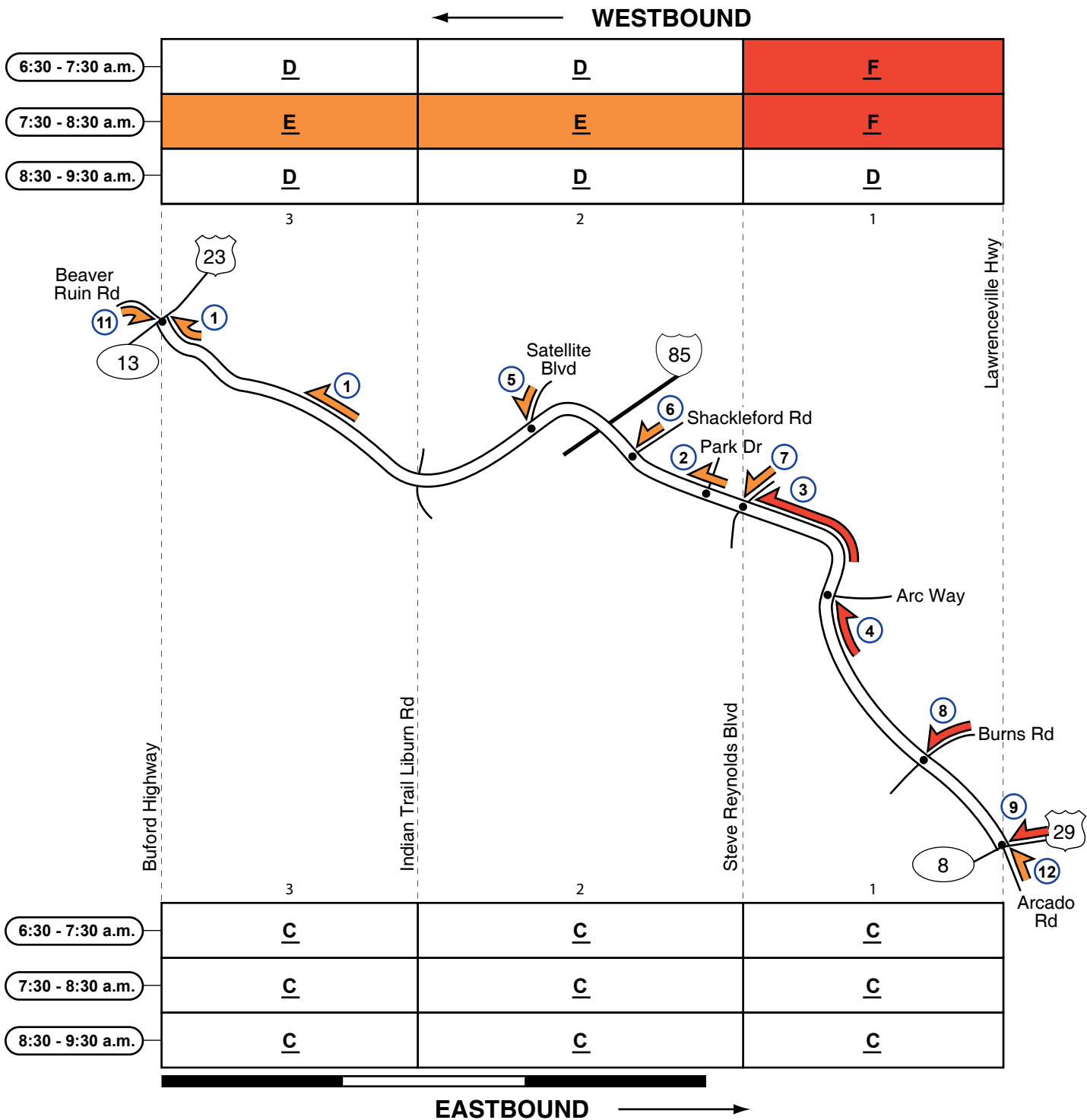
SR 372 (CHEROKEE & FULTON COUNTIES) - EVENING



SR 372 (CHEROKEE & FULTON COUNTIES) - EVENING

- ① Signal Queue
Intersection: Broadwell Rd
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 35 vpl
Number of Lanes: One
 - ② Signal Queue
Intersection: SR 140
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
 - ③ Congested Cross Road
Road Name: Mid Broadwell Rd
Frequency: Intermittent
Direction: Westbound
Queue Population: 20 to 30 vpl
Number of Lanes: One
 - ④ Congested Cross Road
Road Name: Broadwell Rd
Frequency: Intermittent
Direction: Northbound
Queue Population: 20 to 40 vpl
Number of Lanes: One
 - ⑤ Congested Cross Road
Road Name: Hardscrabble Rd
Frequency: Middle hour
Direction: Northbound
Queue Population: 20 to 50 vpl
Number of Lanes: One
 - ⑥ Congested Cross Road
Road Name: Birmingham Rd
Frequency: Most observations
Direction: Westbound
Queue Population: 20 to 30 vpl
Number of Lanes: One
 - ⑦ Congested Cross Road
Road Name: Providence Rd
Frequency: Most observations
Direction: Westbound
Queue Population: 20 to 30 vpl
Number of Lanes: One
-

SR 378 (GWINNETT COUNTY) - MORNING

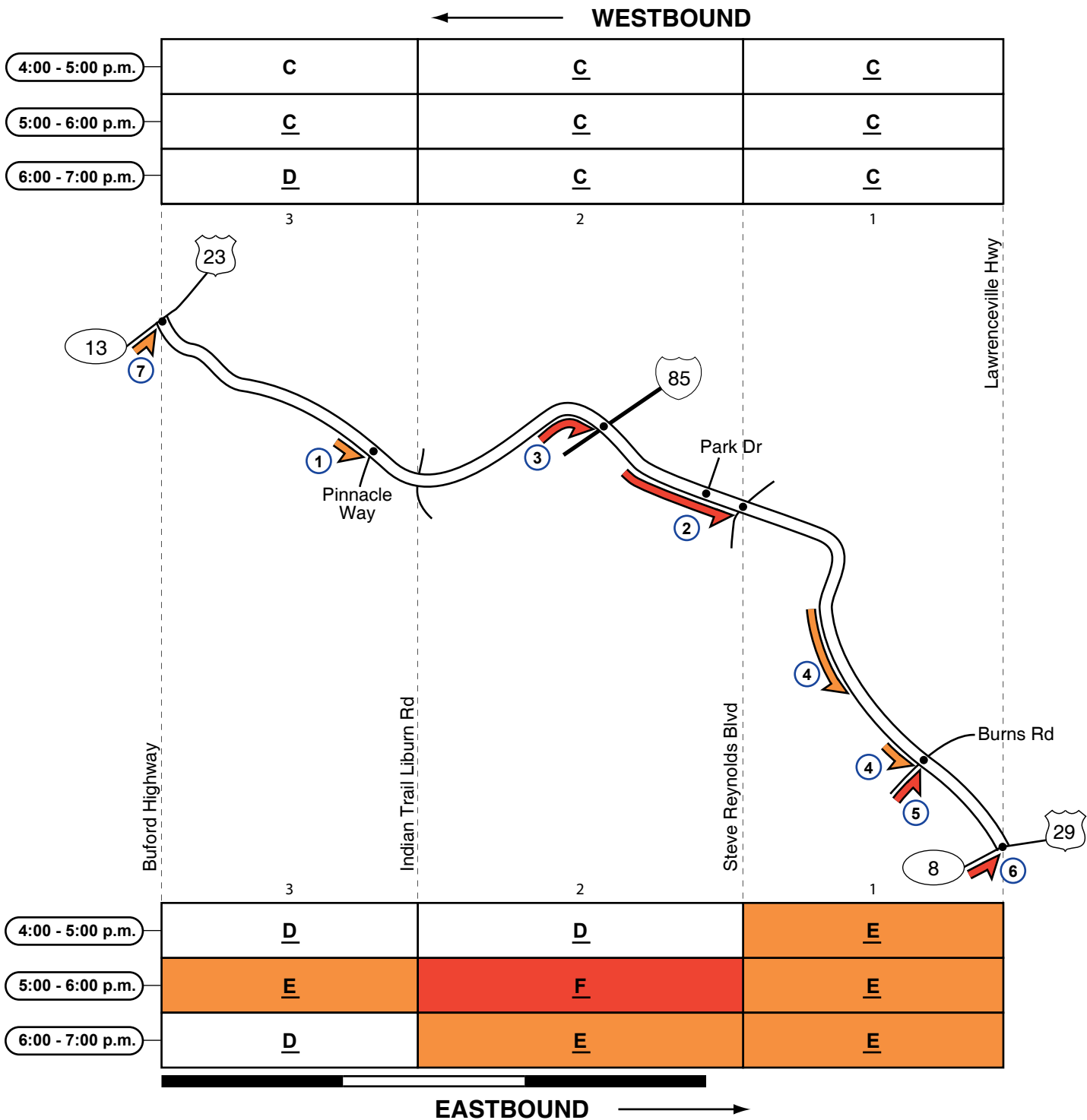


SR 378 (GWINNETT COUNTY) - MORNING

- ① Signal Queue
Intersection: SR 13
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

Platoons
Location: Between Indian Trail Liburn Rd & SR 13
Frequency: Intermittent
Direction: Westbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ② Platoons
Location: Vicinity of the signal at Park Dr
Frequency: Intermittent
Direction: Westbound
Platoon Populations: 25 to 30 vpl
Number of Lanes: Two
- ③ Signal Queue
Intersection: Steve Reynolds Blvd
Frequency: Most observations before 8:30 a.m.
Direction: Westbound
Queue Populations: 20 to 75 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: Arc Way
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 90 vpl
Number of Lanes: Two
- ⑤ Congested Cross Road
Road Name: Satellite Blvd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑥ Congested Cross Road
Road Name: Shackleford Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
Note: Head of queue in dedicated right-turn lane; congestion typically extended back into the one-lane approach on Shackleford Rd.
- ⑦ Congested Cross Road
Road Name: Steve Reynolds Blvd
Frequency: Middle hour
Direction: Southbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two
- ⑧ Congested Cross Road
Road Name: Burns Rd
Frequency: Middle hour
Direction: Westbound
Queue Populations: 20 to 75 vpl
Number of Lanes: One
- ⑨ Congested Cross Road
Road Name: SR 8
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 90 vpl
Number of Lanes: Two
- ⑪ Congested Cross Road
Road Name: Beaver Ruin Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑫ Congested Cross Road
Road Name: Arcado Rd
Frequency: Middle hour
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

SR 378 (GWINNETT COUNTY) - EVENING

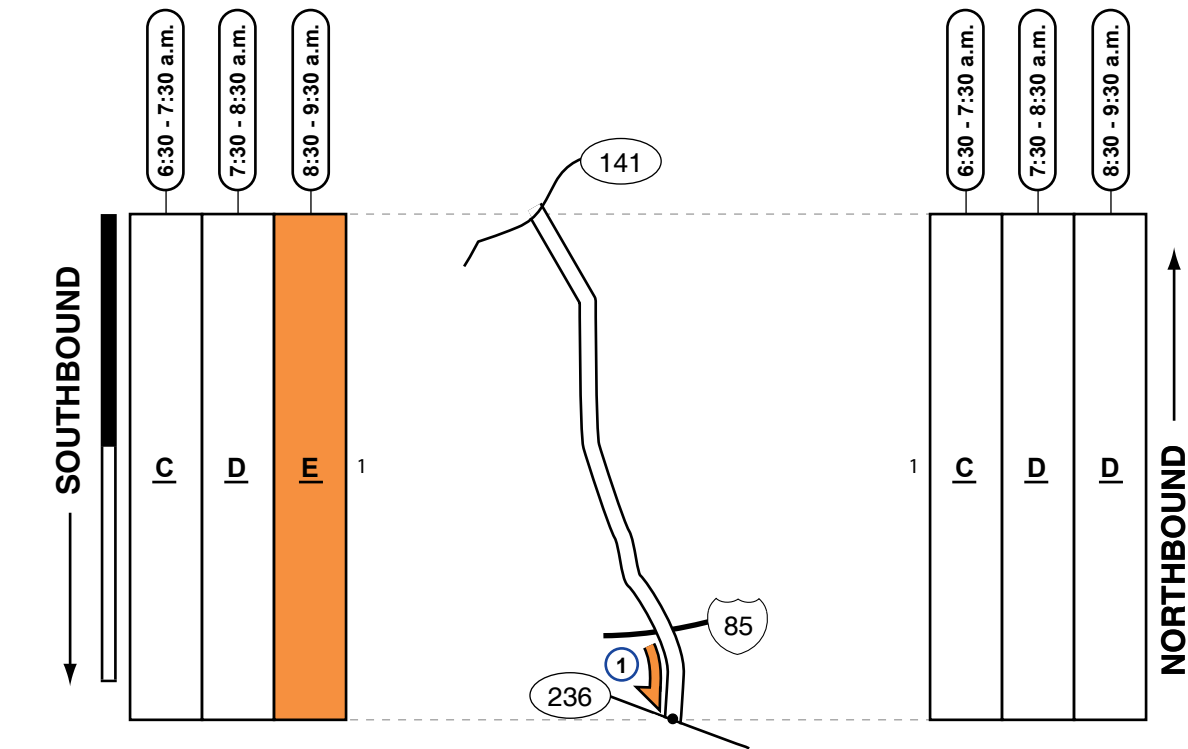


SR 378 (GWINNETT COUNTY) - EVENING

- ① Signal Queue
Intersection: Pinnacle Way
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ② Signal Queue
Intersection: Steve Reynolds Blvd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 60 vpl
Number of Lanes: Two
Note: In some cases, congestion at Steve Reynolds Blvd extended back through the upstream signal at Park Dr.
- ③ Signal Queue
Intersection: I-85
Frequency: Middle hour
Direction: Eastbound
Queue Populations: 20 to 45 vpl
Number of Lanes: Two
- ④ Signal Queue
Intersection: Burns Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two

Platoons
Location: Between Steve Reynolds Blvd & SR 8
Frequency: Most observations
Direction: Eastbound
Platoon Populations: 25 to 35 vpl
Number of Lanes: Two
- ⑤ Congested Cross Road
Road Name: Burns Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 45 vpl
Number of Lanes: One
- ⑥ Congested Cross Road
Road name: SR 8
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 100 vpl
Number of Lanes: Two
- ⑦ Congested Cross Road
Road Name: SR 13
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two

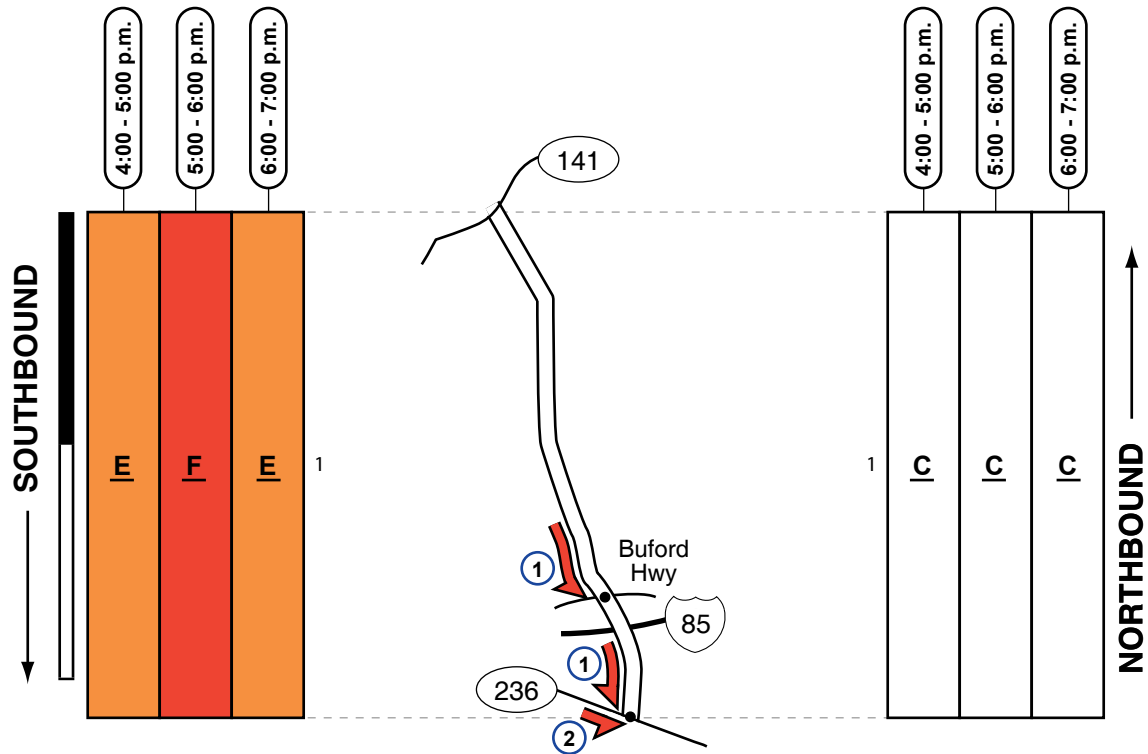
SR 884 - LENOX ROAD (FULTON COUNTY) - MORNING



- 1

Signal Queue
 Intersection: SR 236
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: Two

SR 884 - LENOX ROAD (FULTON COUNTY) - EVENING



① Signal Queues

Intersection: Buford Hwy
 Frequency: Most observations
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two
 Note: One-lane approach on SR 884; two thru-lanes at the signal.

Intersection: SR 236
 Frequency: Most observations
 Direction: Southbound
 Queue Populations: 20 to 60 vpl
 Number of Lanes: Two

② Congested Cross Road

Intersection: SR 236
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 70 vpl
 Number of Lanes: One

Traffic Quality Rating

A

Very Light

B

Light

C

Moderate

D

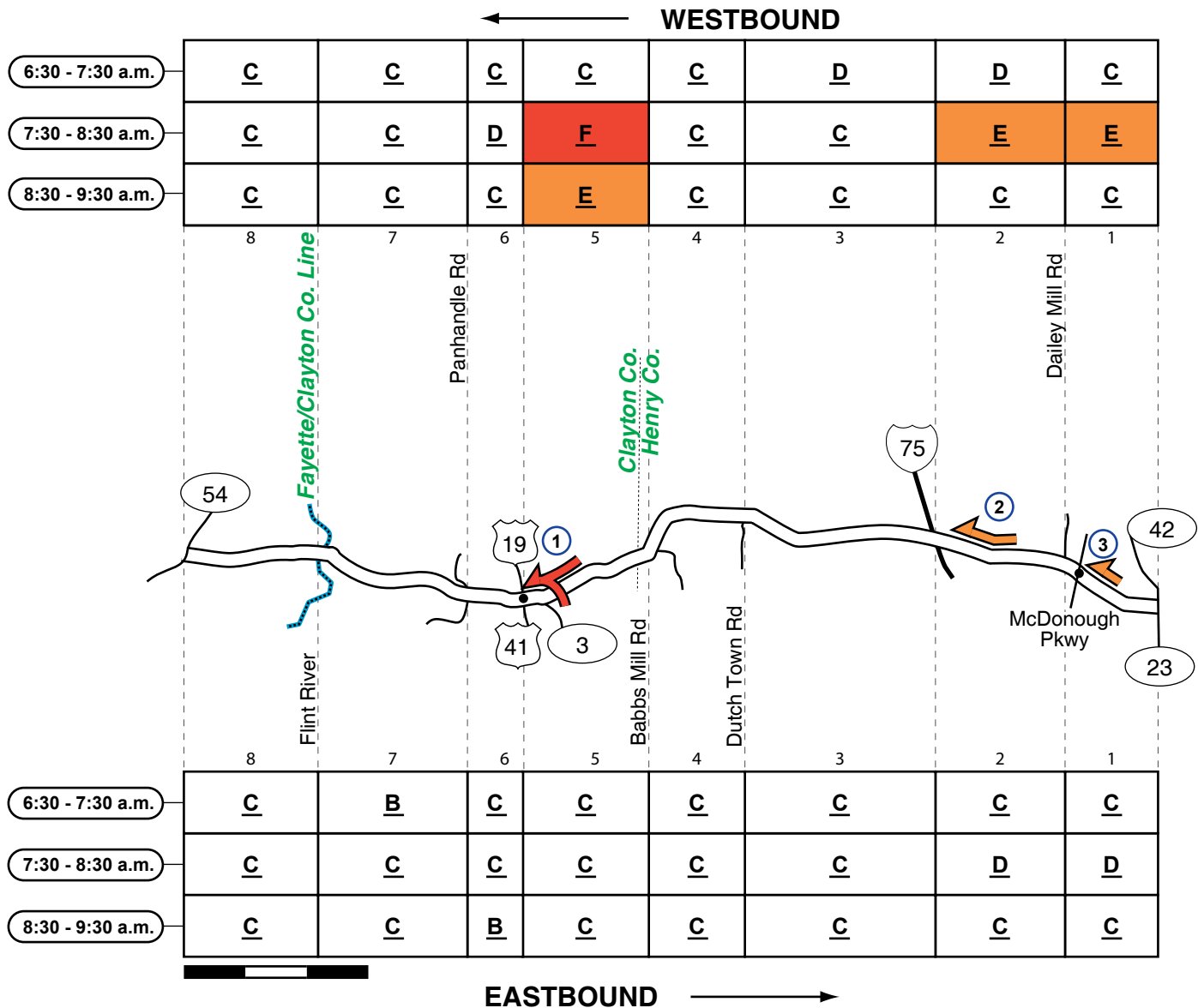
Heavy

E

Congested

F

Severe

SR 920 (FAYETTE/CLAYTON & HENRY COUNTIES) - MORNING

- ① Signal Queue
 Intersection: US 19/41
 Frequency: Most observations after 7:30 a.m.
 Direction: Westbound
 Queue Populations: 20 to 80 vpl
 Number of Lanes: One
 Note: Queue intermittently extended back onto SR 3

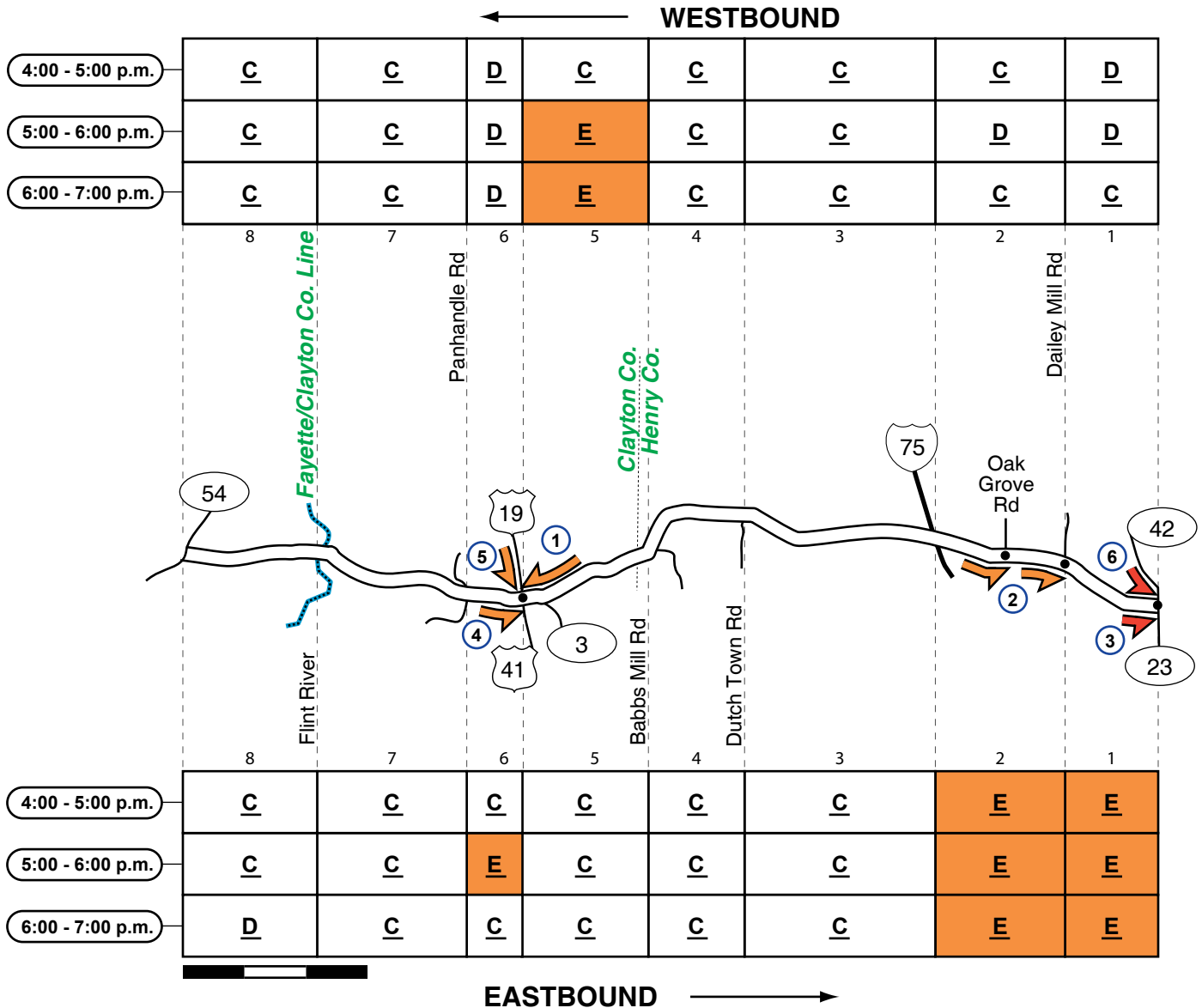
- ③ Signal Queue
 Intersection: McDonough Parkway
 Frequency: Middle hour
 Direction: Westbound
 Queue Populations: 20 to 45 vpl
 Number of Lanes: One

- ② Platoons
 Location: Between Dailey Mill Rd and I-75
 Frequency: Middle hour
 Direction: Westbound
 Platoon Populations: 25 to 45 vpl
 Number of Lanes: One

Traffic Quality Rating

A
Very Light**B**
Light**C**
Moderate**D**
Heavy**E**
Congested**F**
Severe

SR 920 (FAYETTE/CLAYTON & HENRY COUNTIES) - EVENING



① Signal Queue
 Intersection: US 19/41
 Frequency: Late in survey period
 Direction: Westbound
 Queue Populations: 20 to 70 vpl
 Number of Lanes: One

③ Signal Queue
 Intersection: SR 42
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: One

⑤ Congested Cross Road
 Road Name: US 19/41
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

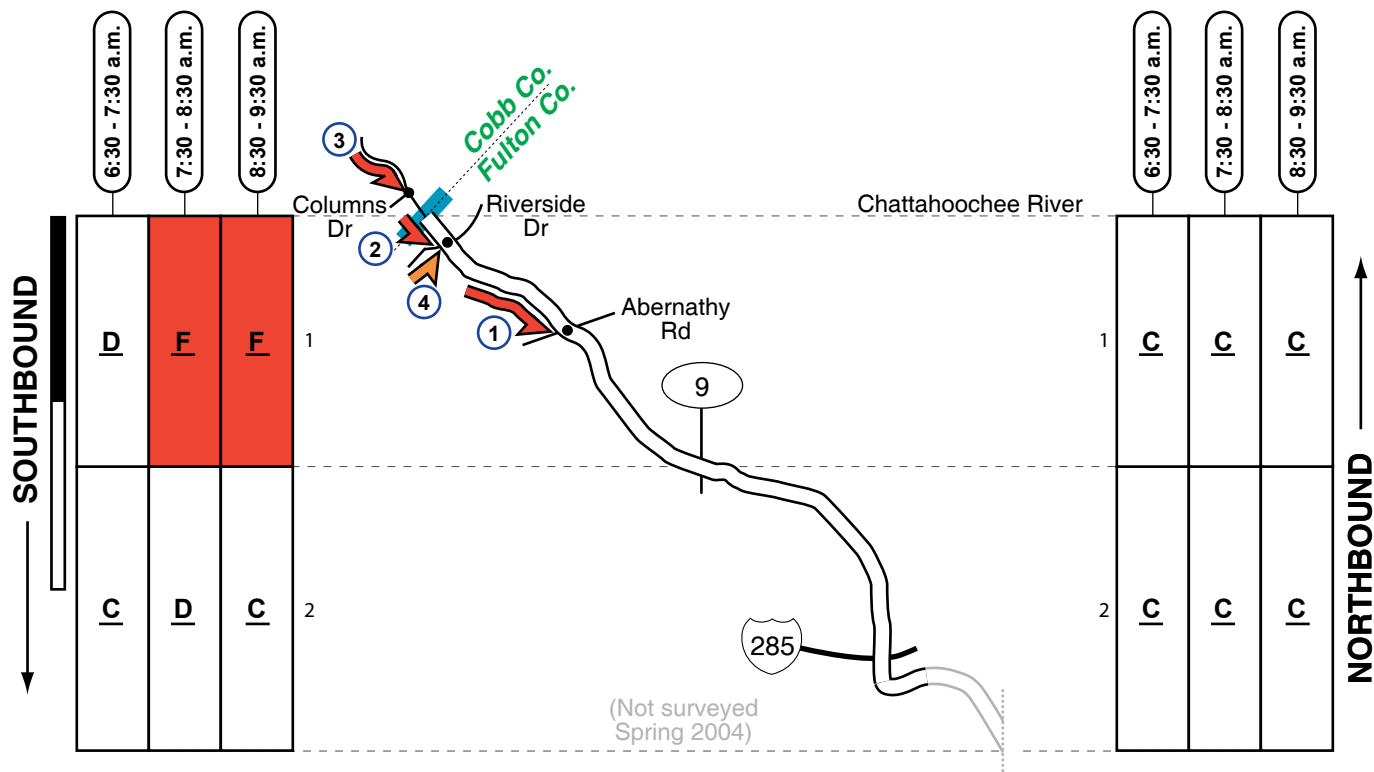
② Signal Queues
 Intersection: Oak Grove Rd
 Frequency: Most observations
 Direction: Eastbound
 Queue Populations: 20 to 60 vpl
 Number of Lanes: One

④ Signal Queue
 Intersection: US 19/41
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

⑥ Congested Cross Road
 Road Name: SR 42
 Frequency: Most observations
 Direction: Southbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One

Intersection: Dailey Mill Rd
 Frequency: Intermittent
 Direction: Eastbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: One

Traffic Quality Rating	A	B	C	D	E	F
	Very Light	Light	Moderate	Heavy	Congested	Severe

SR 947 - JOHNSON FERRY ROAD (FULTON COUNTY) - MORNING

- ① Signal Queue
 Intersection: Abernathy Rd
 Frequency: Most observations
 Direction: Southbound
 Queue Populations: 20 to 80 vpl
 Number of Lanes: Two

- ② Signal Queue
 Intersection: Riverside Dr
 Frequency: Most observations
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

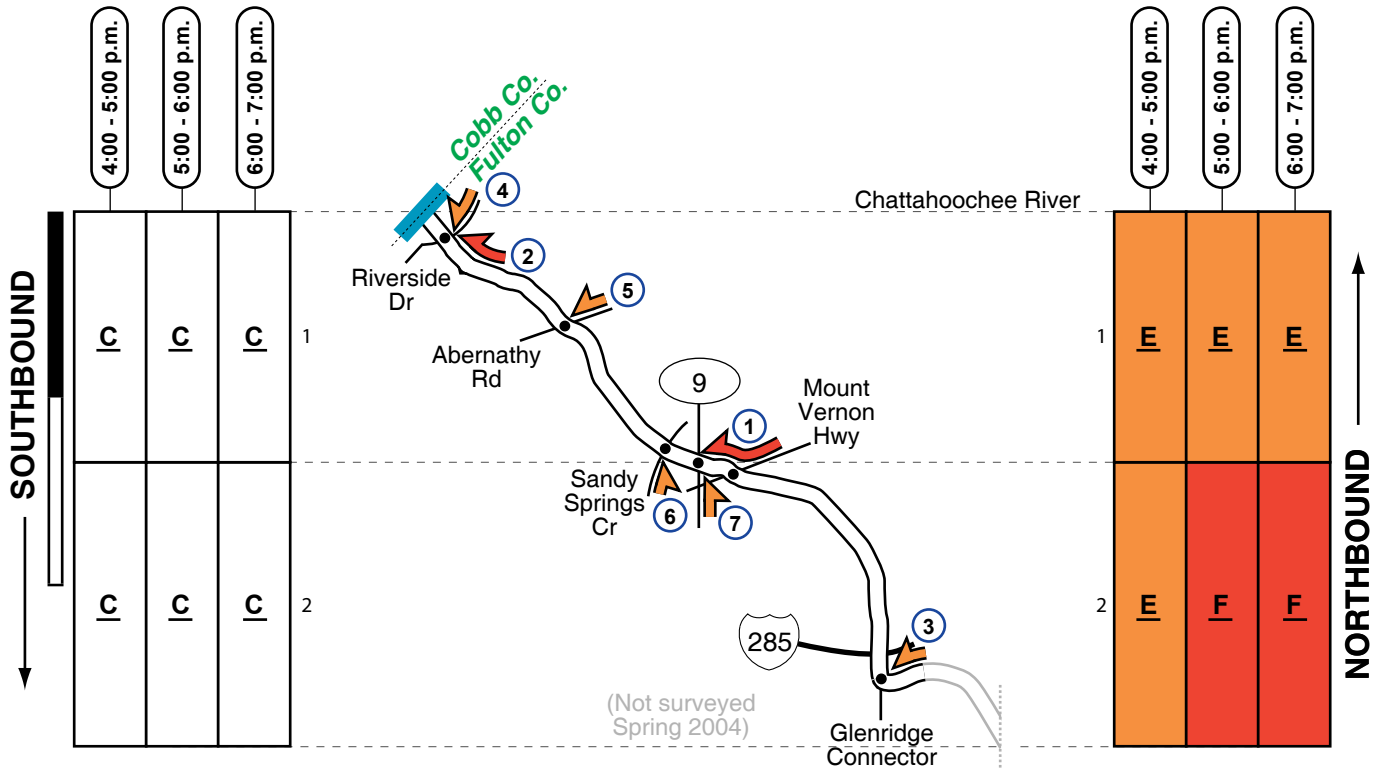
- ③ Signal Queue
 Intersection: Columns Dr
 Frequency: Most observations
 Direction: Southbound
 Queue Populations: 20 to 70 vpl
 Number of Lanes: Two
 Note: In some cases, downstream congestion at Riverside Dr may have exacerbated southbound congestion at Columns Dr (congestion often extended back across the Chattahoochee River).

- ④ Congested Cross Road
 Road Name: Riverside Dr
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: One

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 947 - JOHNSON FERRY ROAD (FULTON COUNTY) - EVENING



- ① Signal Queue
 Intersection: SR 9
 Frequency: Most observations
 Direction: Northbound
 Queue Populations: 20 to 100 vpl
 Number of Lanes: One
 Note: Northbound congestion on SR 947 approaching the signal at SR 9 typically extended back onto Mount Vernon Highway.
- ② Signal Queue
 Intersection: Riverside Dr
 Frequency: Most observations
 Direction: Northbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: Two
- ③ Signal Queue
 Intersection: Glenridge Connector
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 35 vpl
 Number of Lanes: One (right lane of two)
 Note: In some cases, congestion in the right lane on SR 947 extended back through the upstream signal at Glenridge Point Pkwy.
- ④ Congested Cross Road
 Road Name: Riverside Dr
 Frequency: Intermittent
 Direction: Southbound
 Queue Populations: 20 to 25 vpl
 Number of Lanes: One
- ⑤ Congested Cross Road
 Road Name: Abernathy Rd
 Frequency: Intermittent
 Direction: Westbound
 Queue Populations: 20 to 40 vpl
 Number of Lanes: One
- ⑥ Congested Cross Road
 Road Name: Sandy Springs Circle
 Frequency: Intermittent
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: One (queue in dedicated left-turn lane)
- ⑦ Congested Cross Road
 Road Name: SR 9
 Frequency: Most observations
 Direction: Northbound
 Queue/Platoon Populations: 20 to 40 vpl
 Number of Lanes: Two

Traffic Quality Rating

A
Very Light

B
Light

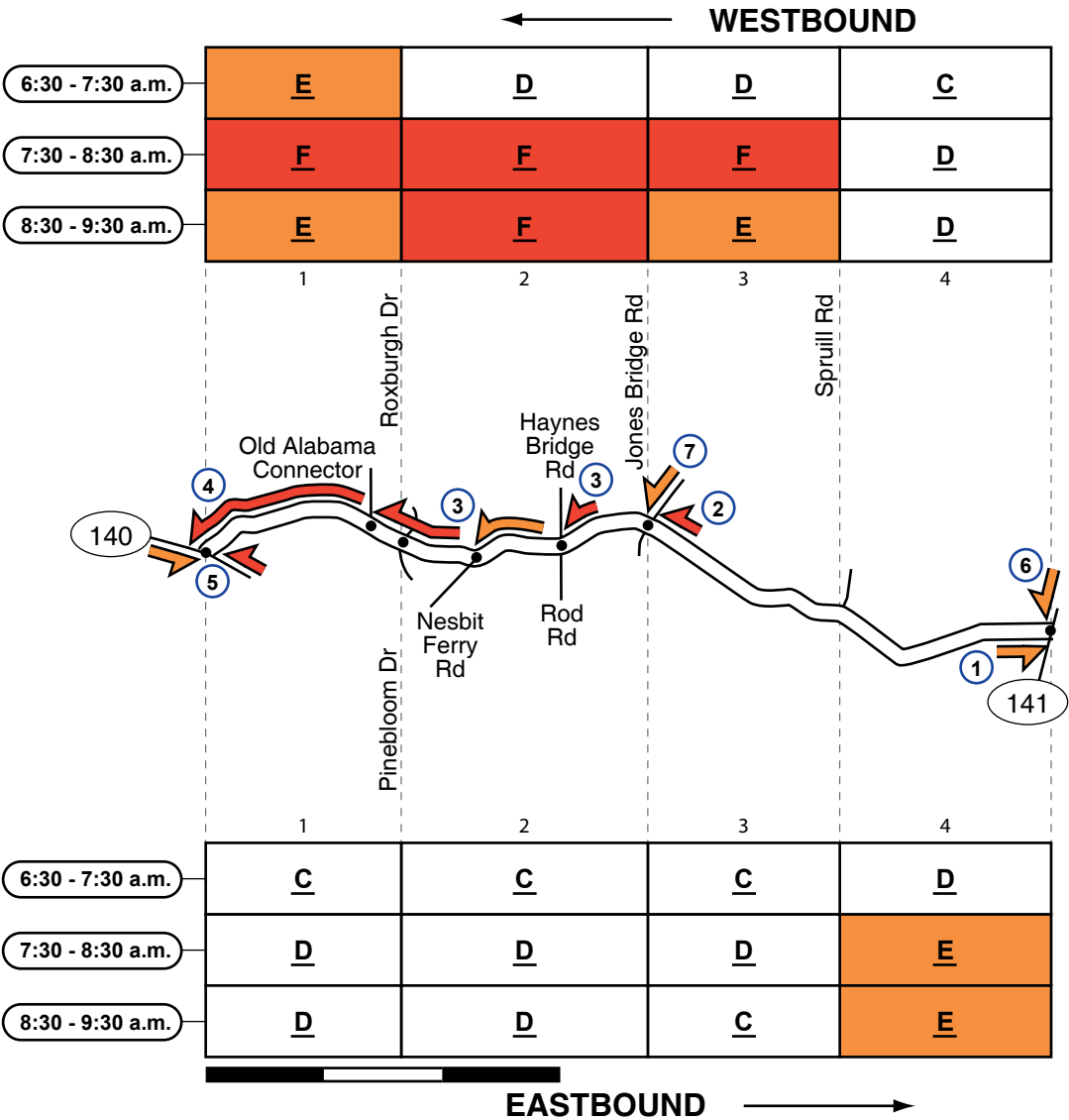
C
Moderate

D
Heavy

E
Congested

F
Severe

SR 961 - OLD ALABAMA ROAD (FULTON COUNTY) - MORNING



SR 961 - OLD ALABAMA ROAD (FULTON COUNTY) - MORNING

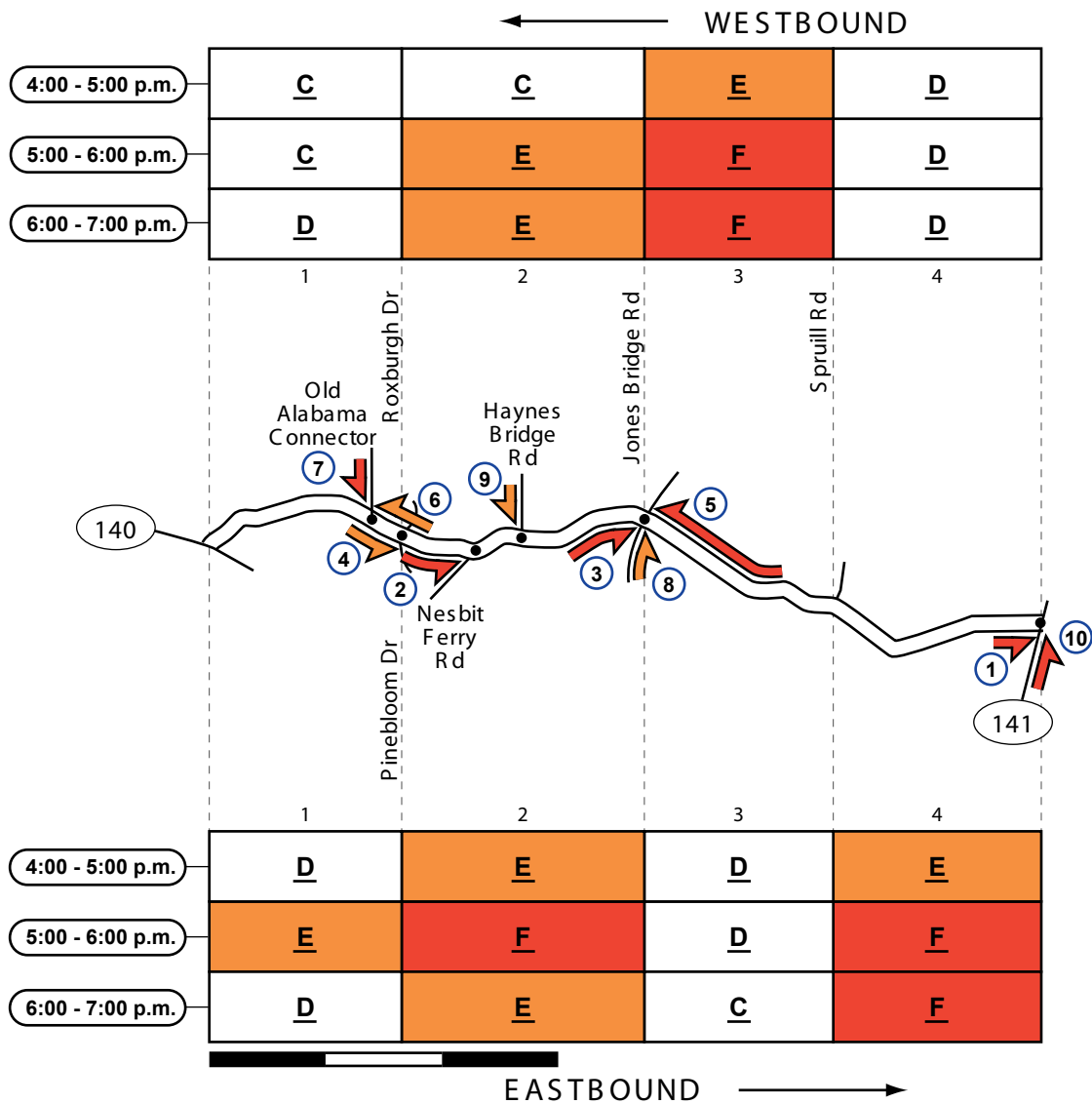
- ① Signal Queue
Intersection: SR 141
Frequency: Most observations after 7:30 a.m.
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
Note: Queue in dedicated left-turn lane
- ② Signal Queue
Intersection: Jones Bridge Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 25 to 50 vpl
Number of Lanes: One
- ③ Signal Queues
Intersections: Old Alabama Connector & Roxburgh Dr
Frequency: Most observations
Direction: Westbound
Queue Populations: 25 to 75 vpl
Number of Lanes: One
Note: Intermittently, congestion approaching the closely spaced signals at Old Alabama Connector and Roxburgh Dr extended back through the upstream signal at Nesbit Ferry Rd

Intersection: Nesbit Ferry Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One

Intersection: Haynes Bridge Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
- ④ Signal Queue
Intersection: SR 140
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 200 vpl
Number of Lanes: One
Note: Head of the queue was in the dedicated right-turn lane. In some cases, a mostly continuous queue extended from SR 140 back to the vicinity of Nesbit Ferry Rd (a distance of approximately 2.5 miles).
- ⑤ Congested Cross Road
Road Name: SR 140
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 50 vpl
Number of Lanes: Two

Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
Note: Queue in left-turn bay intermittently backed into the left lane (of three) on SR 140.
- ⑥ Congested Cross Road
Road Name: SR 141
Frequency: Early in the survey period
Direction: Southbound
Queue Populations: 20 to 30 vpl
Number of Lanes: Two
- ⑦ Congested Cross Road
Road Name: Jones Bridge Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 45 vpl
Number of Lanes: One

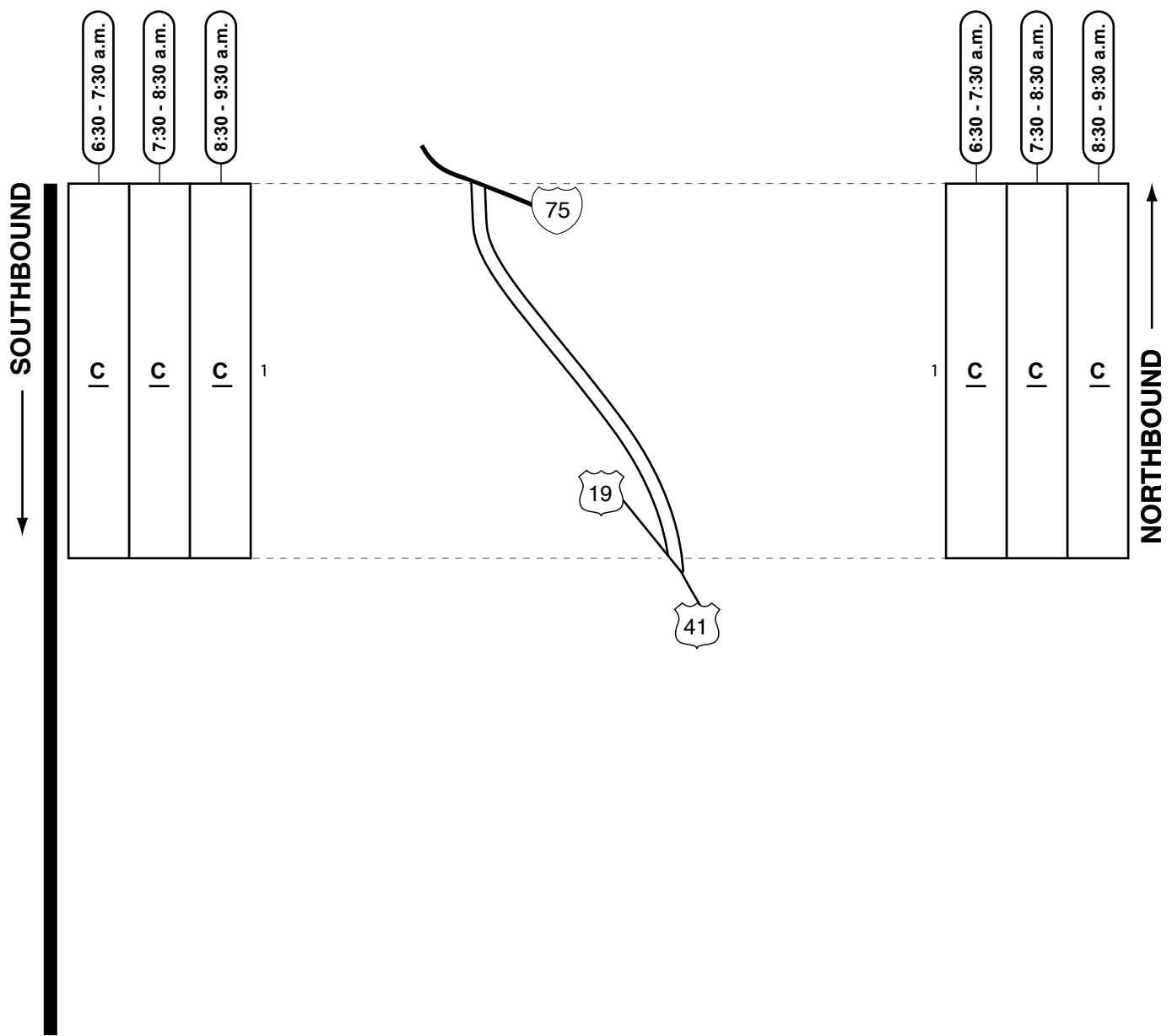
SR 961 - OLD ALABAMA ROAD (FULTON COUNTY) - EVENING



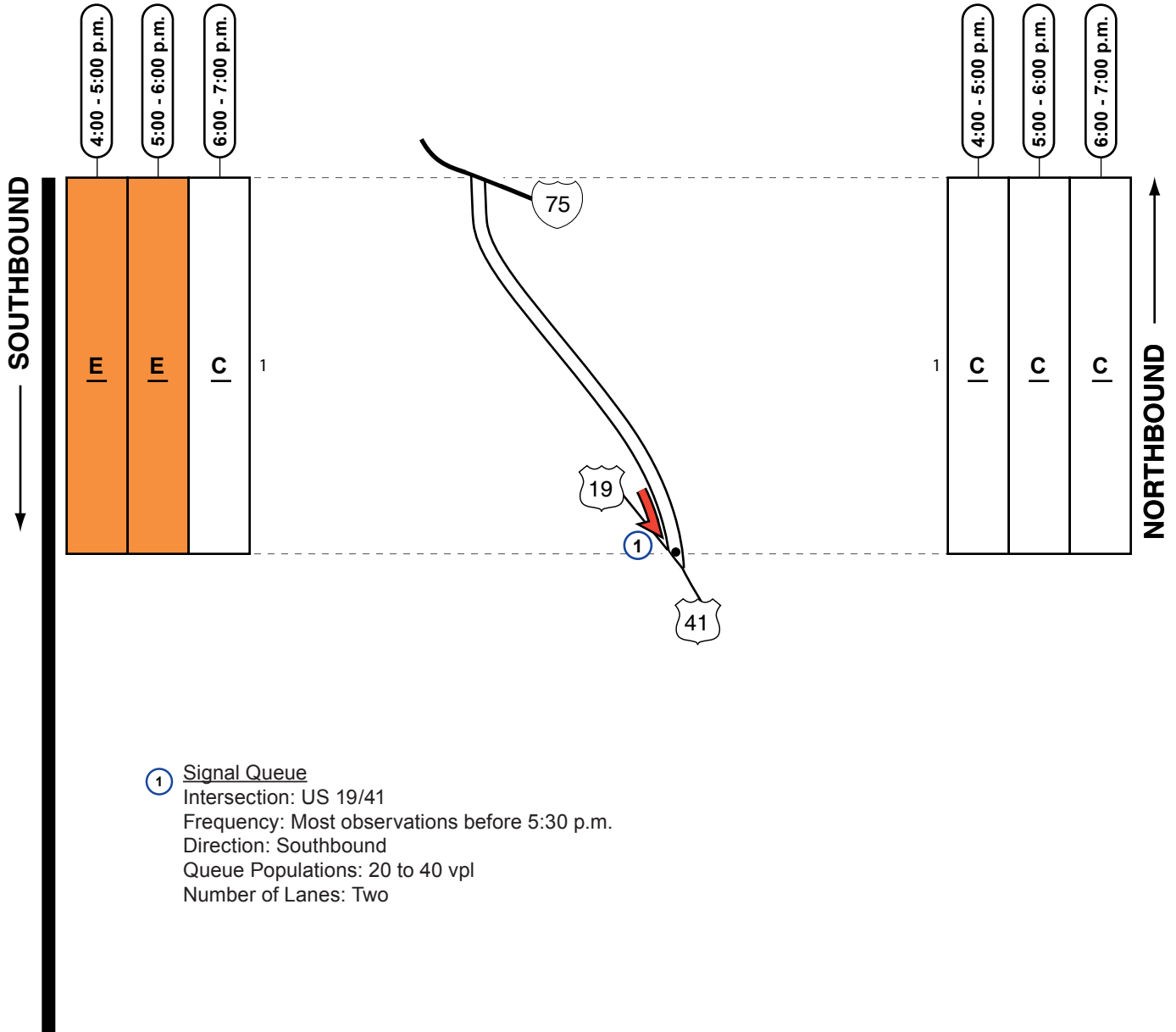
SR 961 - OLD ALABAMA ROAD (FULTON COUNTY) - EVENING

- ① Signal Queue
Intersection: SR 141
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 65 vpl
Number of Lanes: One
Note: The queue was found in the left lane of two (dedicated lane for northbound SR 141).
- ② Signal Queue
Intersection: Nesbit Ferry Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
- ③ Signal Queue
Intersection: Jones Bridge Rd
Frequency: Most observations
Direction: Eastbound
Queue Populations: 20 to 60 vpl
Number of Lanes: One
- ④ Signal Queues
Intersections: Old Alabama Connector & Roxburgh Rd
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑤ Signal Queue
Intersection: Jones Bridge Rd
Frequency: Most observations
Direction: Westbound
Queue Populations: 20 to 200 vpl
Number of Lanes: One
Note: At it's maximum observed extent, a mostly continuous queue extended from Jones Bridge Rd back to the vicinity of Spruill Rd (a distance of approximately two miles).
- ⑥ Signal Queues
Intersections: Old Alabama Connector & Roxburgh Rd
Frequency: Intermittent
Direction: Westbound
Queue Populations: 20 to 30 vpl
Number of Lanes: One
- ⑦ Congested Cross Road
Road Name: Old Alabama Connector
Frequency: Most observations
Direction: Southbound
Queue Populations: 20 to 50 vpl
Number of Lanes: One
Note: Head of queue was found in the left-turn (eastbound) lane at the signal.
- ⑧ Congested Cross Road
Road Name: Jones Bridge Rd
Frequency: Intermittent
Direction: Northbound
Queue Populations: 20 to 25 vpl
Number of Lanes: One
- ⑨ Congested Cross Road
Road Name: Haynes Bridge Rd
Frequency: Intermittent
Direction: Southbound
Queue Populations: 20 to 40 vpl
Number of Lanes: One
Note: Head of queue was found in the left-turn (eastbound) lane at the signal.
- ⑩ Congested Cross Road
Road Name: SR 141
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 150 vpl
Number of Lanes: Two
Note: During the peak period, northbound congestion often extended back across the Chattahoochee River for a distance one to two miles.

SR 3CO (CLAYTON COUNTY) - MORNING

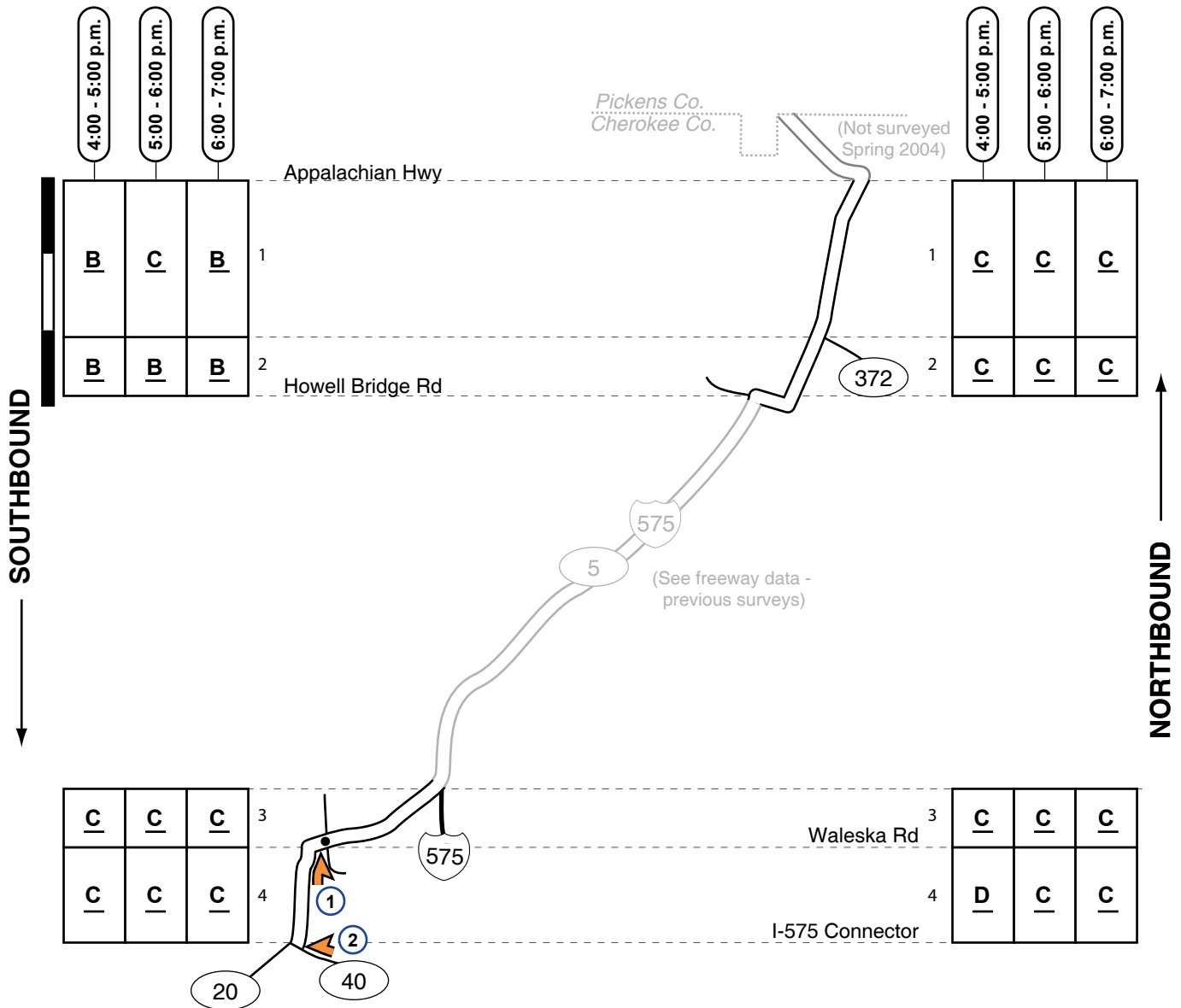


SR 3CO (CLAYTON COUNTY) - EVENING



Traffic Quality Rating	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
	Very Light	Light	Moderate	Heavy	Congested	Severe

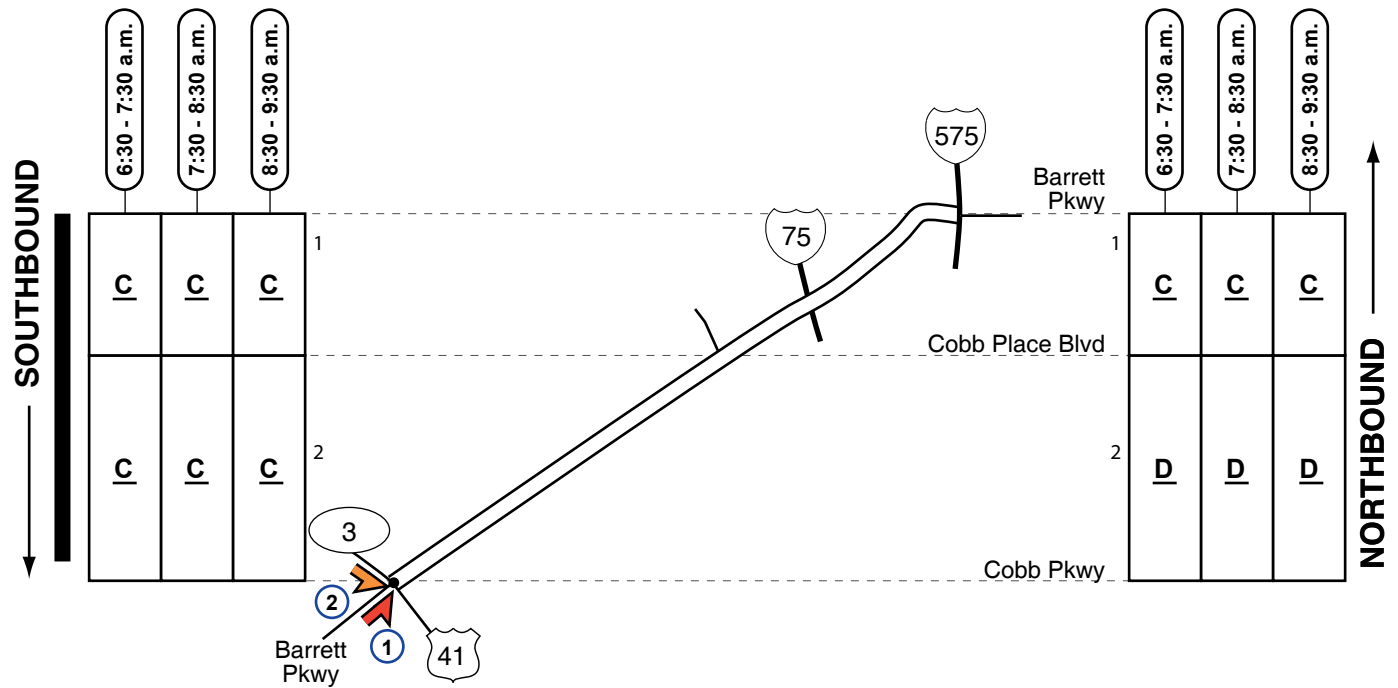
SR 5BU/BALL GROUND HIGHWAY (CHEROKEE COUNTY) - EVENING



Traffic Quality Rating

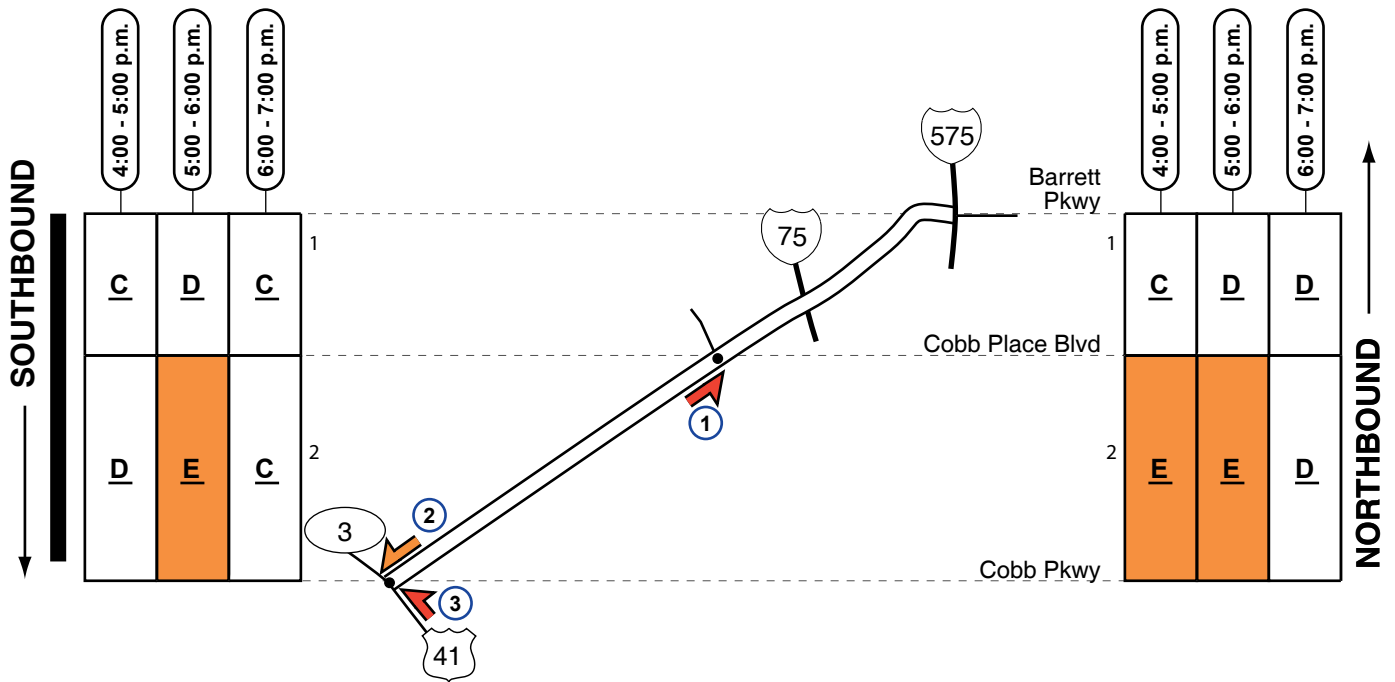
A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

SR 5CO (COBB COUNTY) - MORNING



- 1 Congested Cross Road
Road Name: Barrett Pkwy
Frequency: Most observations
Direction: Northbound
Queue Populations: 20 to 70 vpl
Number of Lanes: Two
- 2 Congested Cross Road
Road Name: SR 3/US 41
Frequency: Intermittent
Direction: Eastbound
Queue Populations: 20 to 40 vpl
Number of Lanes: Two

SR 5CO (COBB COUNTY) - EVENING



- ① Signal Queue
 Intersection: Cobb Place Blvd
 Frequency: Most observations
 Direction: Northbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Three

- ③ Congested Cross Road
 Road Name: SR 3/US 41
 Frequency: Most observations
 Direction: Westbound
 Queue Populations: 20 to 50 vpl
 Number of Lanes: Two

- ② Signal Queue
 Intersection: SR 3/US 41
 Frequency: Most observations before 5:30 p.m.
 Direction: Southbound
 Queue Populations: 20 to 30 vpl
 Number of Lanes: Two

Traffic Quality Rating

A	B	C	D	E	F
Very Light	Light	Moderate	Heavy	Congested	Severe

APPENDIX A

PART ONE: THE EVALUATION OF INTERRUPTED-FLOW HIGHWAYS USING AERIAL PHOTOGRAPHY

PART TWO: SURVEY METHODOLOGY FOR THE 2004 ATLANTA ARTERIAL HIGHWAY TRAFFIC SURVEY

PART ONE

Introduction

Overlapping aerial photography can document many useful characteristics of traffic flow on highway networks. The photographs can be invaluable for screening problem sites, winning support for ideas, and explaining decisions to others. If formal rules and procedures are applied to the analysis of aerial photographs, the photography can provide a cost-effective basis for periodically rating the performance of large highway systems on a link-by-link basis.

Background

On motorized vehicle highways, traffic flow is normally measured in terms of three basic parameters: volume, speed, and density. These parameters are related mathematically such that, if only two are known, the third can be calculated (volume equals speed times density). Other useful flow parameters related to speed are travel time and delay between specific points on a system.

The Highway Capacity Manual (HCM), updated in 2000 by the Transportation Research Board of the National Research Council, is an authoritative governmental resource that has established a simplified concept by which the performance of all types of transportation facilities can be described and compared. This concept is called level of service, or LOS. For each type of facility, a single traffic flow parameter – the one deemed most appropriate by the committee that publishes the manual – is chosen to be the basis for defining six rating categories. These categories are represented by the letters “A” through “F”, ranging from the most favorable rating of LOS A (indicating high service quality associated with lightly-used facilities) to the poorest rating of LOS F (indicating a facility burdened by congestion or other undesirable performance characteristics). This LOS system, introduced in 1965 version of the HCM and revised periodically since, has been widely adopted for evaluating existing highway systems and planning future improvements. Because six LOS classes are easier to understand than tables of numbers, LOS has been widely used in the political process. In some jurisdictions, LOS standards are even found in legislation attempting to guide facility planning or control real estate development.

Uninterrupted-flow highways (grade-separated highways without signals)

The defining parameter for HCM LOS on freeways and other uninterrupted-flow highways is the density of traffic flow (in units of passenger cars per lane per mile). Density was chosen as the basis for HCM LOS because, when traffic flows without interruption, traffic density relates mathematically to both speed and volume. This means that a single LOS measure based on density provides not only general speed information, but also provides an approximation of how heavily the facility is utilized. It also indicates where demand has exceeded capacity, resulting in congestion and delays. (Speed is less desirable as a defining basis for LOS because uninterrupted-flow highways can process high volumes of traffic at high speeds; ratings based on speed alone might not differentiate

clearly between facilities that were heavily or lightly utilized.) The most common way to determine LOS on an existing freeway is to measure the speed and volume of the traffic, and then calculate the density. Another method is to determine density directly from aerial photographs, which allows for cost effective data collection across very large highway networks. (This also affords the other benefits of aerial photography, which often shows the underlying causes of congestion as well as conditions on interchange ramps, merges and crossroads.) Accordingly, when Skycomp evaluates the performance of uninterrupted-flow highway facilities, Skycomp derives traffic densities from aerial photographs and then determines density-based HCM LOS ratings.

Interrupted-flow arterials (highways with traffic signals)

Density is not an appropriate performance measure for interrupted-flow arterials since density measurements will fluctuate widely with uneven flow caused by traffic signals. Accordingly, the defining parameter of HCM LOS on interrupted-flow highways is average travel speed, which is calculated from travel time. Travel time is commonly measured by inserting probe vehicles into a traffic stream (called “floating cars”), and recording travel times between key intersections; an alternative method is to record and match hundreds of license plate numbers at various points along a study corridor, and then calculate the associated travel times and speeds. These methods are widely used on commuter highways of all types, and have the advantage of providing actual HCM LOS on interrupted-flow highways – something that aerial photography cannot do on a large-scale basis.

Travel time methods are limited, however, in that they do not provide information regarding how heavily facilities are being used (that is normally accomplished with some form of volume determination). They also do not provide insight as to the underlying causes of congestion, or the degree to which congestion exists on cross streets or along merging routes. Aerial photography can provide this information, with the added benefit that the actual photographs can be used for inspection or documentation. For example, without traveling to the field, transportation specialists can view bottlenecks, look for causes, and sometimes even consider the feasibility of potential corrective actions. For example, is the problem caused by a specific turning movement within the intersection? Might it be feasible to add a turning lane? Are cross streets free of congestion (so we can consider adding “green” signal-time to the primary route)? How much worse has this become over the last three years? Should we include this site on our study list? The photographs then become supporting documentation for subsequent recommendations by engineers and funding decisions by elected officials.

Therefore, even though aerial photography cannot supply HCM LOS on interrupted-flow highways, the potential benefits of the approach are such that Skycomp was asked to develop a surrogate LOS performance measure – one that could be obtained cost-effectively from aerial photography, and could be used to monitor and document facility performance over time.

Surrogate LOS rating system developed by Skycomp.

Skycomp began by recognizing that the HCM supplies qualitative descriptions of the general nature of traffic flow associated with each LOS. For example, for LOS A, the HCM states:

“LOS A describes primarily free-flow operations at average travel speeds, [usually about 90% of the free flow speed for the given street class]. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Control delay at signalized intersections is minimal.” (Travel-time definition highlighted in brackets.)

At the other extreme, the HCM states:

“LOS F is characterized by urban street flow at extremely low speeds, [typically one-third to one-fourth of the free-flow speed]. Intersection congestion is likely at critical signalized locations, with high delays,

high volumes and extensive queuing.”

Because aerial photographs show actual conditions on each highway link, they can be used to classify general levels of demand and congestion in a manner reasonably consistent with the six HCM descriptions. Skycomp developed and formalized such a system, which was introduced in 1995*. This rating system was developed under the following constraints:

- Like HCM LOS, the surrogate rating scale must consist of six classes labeled “A” through “F”. These classes must cover the full range of traffic conditions found on interrupted-flow highways, from empty to densely congested highways, with reasonable gradations in between. Ratings must be generally consistent with the qualitative descriptions of traffic flow associated with each LOS class in the HCM.
- The procedure must produce consistent results, so that different trained persons will generally assign the same ratings when analyzing with the same photographs.
- The procedure must produce ratings that are not be sensitive to the time the photographs were taken relative to the signal cycle.

Definition of Surrogate LOS Performance Ratings

Skycomp’s system relies on assessing the nature of vehicle platoons and the extent of queuing found at signalized intersections. Accordingly, the six surrogate LOS performance ratings used in this survey of interrupted-flow highways are defined as follows. (Because they are surrogate LOS measures, they are underlined for differentiation from HCM LOS):

Surrogate LOS Performance Rating A:

— Very few vehicles are using the highway; the highway is virtually deserted. [HCM qualitative description for LOS A: Vehicles are completely unimpeded in their ability to maneuver within the traffic stream; free-flow operations.]

Surrogate LOS Performance Rating B:

— Traffic flow is light; there is little or no grouping of vehicles (“platooning”). [HCM qualitative description for LOS B: reasonably unimpeded operations; ability to maneuver only slightly restricted.]

Surrogate LOS Performance Rating C:

—Traffic flow is moderate (not heavy, not light). There are enough vehicles to form into distinct platoons, but platoon populations do not exceed 15 vehicles per lane. [HCM qualitative description for LOS C: stable operations; some restrictions to ability to maneuver.)

Surrogate LOS Performance Rating D:

—Traffic flow is heavy; there are many cars are on the road. Significant queuing is found at signals, but all queued vehicles are expected to clear the signal on “green” (there are less than 20 vehicles per lane queued at all signals in the segment). Platoons contain at least 15 but do not exceed 25 vehicles per lane. [HCM qualitative description for LOS D: borders on unstable flow where small increases in flow may cause substantial decreases in travel speed.]

Surrogate LOS Performance Rating E:

— Traffic flow is congested. The segment may contain one or two signalized intersections with queues of more than 20 vehicles per lane (all vehicles may not clear on “green”). Platoon populations exceed 25 vehicles per lane. (On long one-lane segments, the movement of vehicles may resemble a funeral procession, with little opportunity for side-

traffic to enter the roadway.) [HCM qualitative description for LOS E: significant delays and low average travel speeds; typical causes include adverse progression, high signal density, high volumes, extensive delays at critical intersections, and inappropriate signal timing.]

Surrogate LOS Performance Rating E:

— Traffic flow is severely congested. This involves vehicles backing through an upstream signal, or for the length of the segment; a series of closely-spaced intersections with more than 20 vehicles per lane queued at each; or the segment contains one severely congested intersection, with more than 40 vehicles per lane queued approaching the signal (it may take two or more signal cycles to clear the intersection). [HCM qualitative description for LOS F: flow at extremely low speeds; high delays and extensive queuing likely at critical intersections.]

PART TWO

Part One describes the definitions that were used in evaluating the highways surveyed during the spring of 2004, all of which were classified as “interrupted flow facilities”. Part Two describes the specific procedures that were used to apply this rating structure to the archive of aerial photography that was produced by survey operations, and to produce the findings that underpin this report.

Survey operations to produce aerial photography

The highway system to be surveyed was defined by the client. Skycomp divided the designated system into 14 flight patterns, each of which could be patrolled by a survey airplane in about one hour. Three-hour survey flights were then conducted by pattern, with three tours being completed during each flight. Morning survey coverage occurred between 6:30 and 9:30 a.m.; evening coverage occurred between 4:00 and 7:00 p.m. For each pattern, a total of four weekday morning and four weekday evening survey flights were conducted (Monday mornings, Friday evenings and mornings after holidays were excluded.) Survey flights were initiated in mid-March 2004, and were completed by mid-May.

As each plane flew each tour, overlapping digital photographs were acquired of the full length of each surveyed highway. Upon landing, the images were sorted by time slice and by facility, and delivered to a photo lab for production of color prints.

Photo analysis procedures

Prior to the beginning of photo analysis, each surveyed highway was segmented into sections between major intersections or crossroads (segments were normally two to three miles in length; however, some segments were as short as one mile or as long as five miles, depending primarily on the density of traffic signals).

Ratings were assigned one segment at a time, by direction. For each rating, all associated photographs were laid out and oriented for simultaneous viewing. The analyst began by considering the definition of surrogate LOS C, and determining if the conditions warranted that definition. If so, the assignment was made. If not, the analyst adjusted the rating upward or downward as warranted by the conditions.

In the event that an incident or temporary roadwork significantly affected the rating, the evaluator attached a code that would later exclude the affected data from being compared to the results of other survey flights.

After a quality-control review by the senior analyst, all individual ratings were digitized and entered into a computer database program for compilation and evaluation. Ratings were printed by time slice and by day, so that unusual ratings could be identified. For example, if “B” or “C” ratings were assigned on three

days and an “E” rating on one day, the photography was checked for possible error or incident. If the data were clearly atypical but a cause could not be identified, a code “u” (“unknown”) was attached to the data (like the incident and roadwork codes, this would flag the data for exclusion when determining predominant ratings).

Skycomp’s senior analyst then reviewed the photography at each bottleneck location (performance rating “E” or “F”), verified the traffic quality ratings assigned by the analyst, and prepared a text entry summarizing details at the site. For example:

Summary detail note (SR360 at Cheatham Rd):

Congestion Type: Signal Queue

Intersection: Cheatham Rd / Callaway Rd

Frequency: Most observations

Direction: Eastbound

Queue Populations: 20 to 80 vehicles per lane

Number of Lanes: Two

For each bottleneck, one set of photographs was also selected at the time which best illustrated the congestion that was found. Digital versions of these photos were then cropped, zoomed, and labeled as appropriate, and set aside for incorporation later into the interactive digital slide show.

Next, revisions were made to the database as appropriate, and reports were generated which grouped all non-excluded ratings by segment and time slice. Skycomp’s senior analyst then examined each group to determine which rating was predominant. Once determined, the predominant rating for each segment and time slice was entered the traffic quality rating tables that comprise the main body of the printed report.

Report, Database, and Web-ready Slide Show

In addition to a complete set of morning and evening traffic quality rating tables, the printed report contains arrowhead graphics that depict bottleneck locations, as well as summary detail notes for all bottlenecks. The printed report also contains a CD-ROM containing the underlying database used for the analysis. Written in Microsoft Access format, the database contains queries for customizing data summaries for transportation analysts.

Highlight photography set aside by the senior analyst has been grouped by county and assembled into an interactive web-ready slide show, activated by graphics that depict each bottleneck with colored arrows: RED arrows were used to depict severe congestion; and ORANGE arrows were used to depict intermittent or marginal congestion. This comprehensive resource contains over 1,500 images at approximately 400 bottleneck locations, and provides point-and-click simplicity for photo retrieval.

Taken together, the products of this survey operation provide a comprehensive evaluation of the performance of an enormous interrupted-flow sub-system of highways (as of the spring of 2004). When combined with the results of 2005 surveys covering the freeway facilities and other key arterials, these products will comprise an invaluable toolbox to aid the transportation planning process throughout the 21-county Atlanta planning region.

* (Skycomp developed its system to the HCM LOS descriptions that were current in 1995. The qualitative descriptions associated with each LOS rating were not materially revised in HCM 2000.)